

# Immunoassay Business Unit



Our Immunoassay Business Unit provides in vitro diagnostics, laboratory kits that are essential tools in diagnostic and research activities. Our Radioimmunoassay kits are reliable and provide accurate results in endocrinology, oncology, autoimmunity etc.

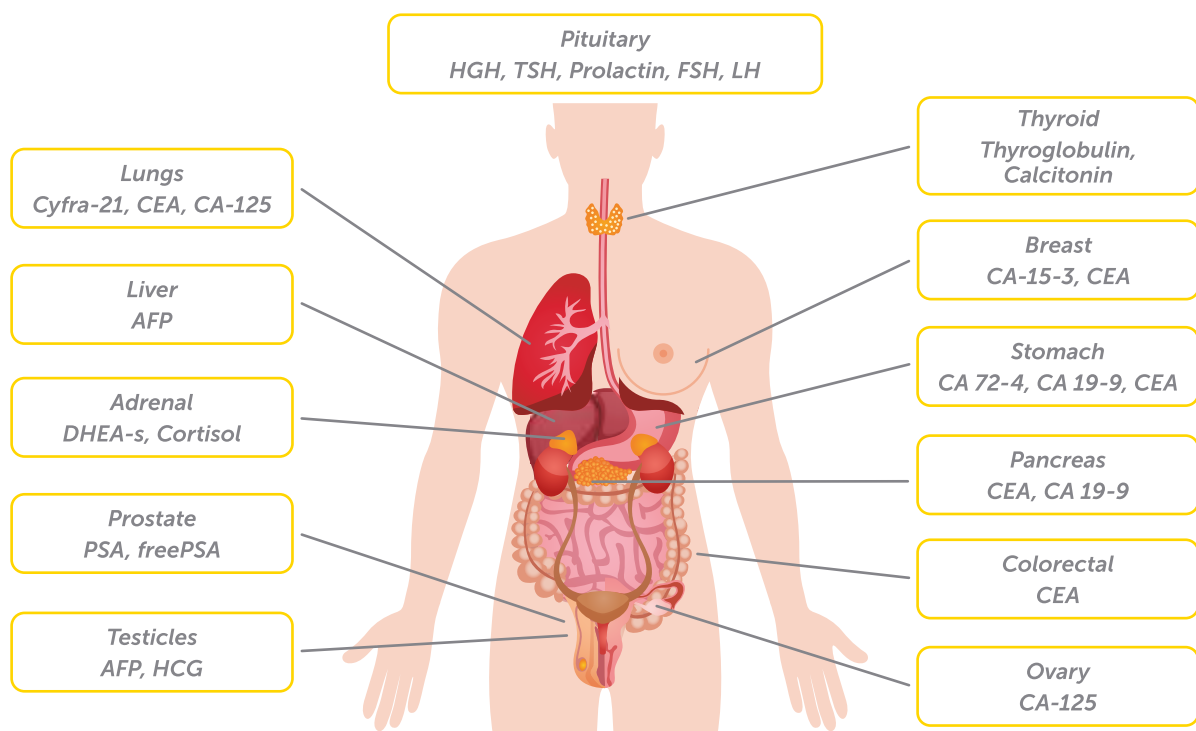
Besides being key participant on the market for many years, we are also engaged in product development projects and offer contract manufacturing, OEM services for our customers.



## Tumour markers

| Product name                 | Code                   | Separation method | Pack size (Tests) | Sample volume (µl) | Calibrator range | Incubation (Hours) | Analytical Sensitivity or LoD | Shelf life (days) |
|------------------------------|------------------------|-------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|-------------------|
| AFP [I-125] IRMA KIT         | RK-800CT               | coated tube       | 100               | 50                 | 0 - 500 IU/mL    | 2                  | 0.06 IU/mL                    | 60                |
| hCEA [I-125] IRMA KIT        | RK-38CT                | coated tube       | 100               | 50                 | 0 - 180 ng/mL    | 1                  | 0.09 ng/mL                    | 60                |
| hPSA [I-125] IRMA KIT        | RK-10CT                | coated tube       | 100               | 25                 | 0 - 100 ng/mL    | 1                  | 0.09 ng/mL                    | 60                |
| free PSA [I-125] IRMA KIT    | RK-85CT                | coated tube       | 100               | 50                 | 0 - 30 ng/mL     | 2                  | 0.05 ng/mL                    | 60                |
| CA 15-3 [I-125] IRMA KIT     | RK-153CT<br>RK-153CT50 | coated tube       | 100<br>50         | 10                 | 0 - 300 U/mL     | 1 + 1              | 1.35 U/mL                     | 60                |
| CA 19-9 [I-125] IRMA KIT     | RK-199CT<br>RK-199CT50 | coated tube       | 100<br>50         | 100                | 0 - 240 U/mL     | 1 + 1              | 1.85 U/mL                     | 60                |
| CA125 [I-125] IRMA KIT       | RK-125CT<br>RK-125CT50 | coated tube       | 100<br>50         | 100                | 0 - 500 U/mL     | 2                  | 1.08 U/mL                     | 60                |
| CA 72-4 [I-125] IRMA KIT     | RK-724CT<br>RK-724CT50 | coated tube       | 100<br>50         | 100                | 3 - 100 U/mL     | 2 + overnight      | 1.94 U/mL                     | 60                |
| CYFRA 21.1 [I-125] IRMA KIT  | RK-211CT<br>RK-211CT50 | coated tube       | 100<br>50         | 100                | 0 - 60 ng/mL     | overnight          | 0.14 ng/mL                    | 60                |
| hCalcitonin [I-125] IRMA KIT | RK-83CT                | coated tube       | 100               | 100                | 0 - 2000 pg/mL   | overnight          | 1.21 pg/mL                    | 67                |
| hTG [I-125] IRMA KIT         | RK-51CT                | coated tube       | 100               | 100                | 0 - 250 ng/mL    | overnight          | 0.1 ng/mL                     | 67                |

One of the primary advantages of using RIA for tumor marker analysis is its exceptional sensitivity. RIA can detect tumor markers in extremely low concentrations. Each tumor marker has its own specificity and sensitivity, making it suitable for particular cancer types or stages. By utilizing a panel of tumor markers, clinicians can obtain a comprehensive profile of the patient's disease status



# Diabetes



| Product name                | Code                  | Separation method    | Pack size (Tests) | Sample volume (µl) | Calibrator range | Incubation (Hours) | Analytical Sensitivity or LoD | Shelf life (days) |
|-----------------------------|-----------------------|----------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|-------------------|
| hC-peptide [I-125] IRMA KIT | RK-84CT               | coated tube          | 100               | 50                 | 0-30 ng/m L      | 3                  | 5.6 pg/mL                     | 60                |
| INSULIN [I-125] IRMA KIT    | RK-400CT              | coated tube          | 100               | 100                | 0-500 µIU/m L    | 2                  | 1.23 µIU/mL                   | 67                |
| Anti-GAD65 [I-125] RIA KIT  | RK-40P50<br>RK-40P100 | Protein A separation | 50<br>100         | 20                 | 0.1-120 U/mL     | 2+1                | 0.1 U/mL                      | 67                |
| Anti-IA2 [I-125] RIA KIT    | RK-20P50<br>RK-20P100 | Protein A separation | 50<br>100         | 20                 | 0.01-60 U/mL     | 18-24 + 1          | 0.1 U/mL                      | 67                |
| IAA [I-125] RIA KIT         | RK-50P50<br>RK-50P100 | Protein A separation | 50<br>100         | 20                 | 0-50 U/mL        | 18-24 + 1          | 0.12 U/mL                     | 60                |

# Thyroid function

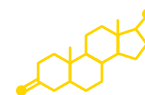


| Product name                 | Code               | Separation method | Pack size (Tests) | Sample volume (µl) | Calibrator range | Incubation (Hours) | Analytical Sensitivity or LoD | Shelf life (days) |
|------------------------------|--------------------|-------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|-------------------|
| TURBO TSH [I-125] IRMA KIT   | RK-1CT1<br>RK-1CT5 | coated tube       | 100<br>500        | 100                | 0 - 100 µIU/mL   | 0.5                | 0.036 µIU/mL                  | 67                |
| Anti-hTG [I-125] RIA KIT     | RK-8CT             | coated tube       | 100               | 100                | 0 - 3000 IU/mL   | 2                  | 8.29 IU/mL                    | 67                |
| hTG [I-125] IRMA KIT         | RK-51CT            | coated tube       | 100               | 100                | 0 - 250 ng/mL    | overnight          | 0.1 ng/mL                     | 67                |
| hCalcitonin [I-125] IRMA KIT | RK-83CT            | coated tube       | 100               | 100                | 0 - 2000 pg/mL   | overnight          | 1.21 pg/mL                    | 67                |
| Anti-hTPO [I-125] RIA KIT    | RK-36CT            | coated tube       | 100               | 10                 | 0 - 1900 IU/mL   | 2                  | 7.26 IU/mL                    | 67                |
| FT4 [I-125] RIA KIT          | RK-349CT           | coated tube       | 100               | 50                 | 0 - 80 pmol/L    | 1                  | 1.28 pmol/L                   | 67                |
| T4 [I-125] RIA KIT           | RK-11CT1           | coated tube       | 100               | 25                 | 0 - 320 nmol/L   | 2                  | 7 nmol/L                      | 67                |
| FT3 [I-125] RIA KIT          | RK-339CT           | coated tube       | 100               | 100                | 0 - 40 pmol/L    | 1                  | 0.78 pmol/L                   | 67                |
| T3 [I-125] RIA KIT           | RK-609CT           | coated tube       | 100               | 50                 | 0 - 12 nmol/L    | 1                  | 0.32 nmol/L                   | 67                |
| T3 UPTAKE [I-125] RIA KIT    | RK-950CT           | coated tube       | 100               | 20                 | -                | 1                  | -                             | 67                |
| TRAK [I-125] 1step RIA KIT*  | RK-30CT            | coated tube       | 100               | 100                | 0.1- 50 IU/mL    | 2                  | 0.38 IU/mL                    | 67                |

\* available outside Europe only



# Steroids



| Product Name                 | Code     | Separation Method | Pack Size (Tests) | Sample volume (µl) | Calibrator range | Incubation (Hours) | Analytical Sensitivity or LoD | Shelf life (days) |
|------------------------------|----------|-------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|-------------------|
| TESTOSTERONE [I-125] RIA KIT | RK-61CT  | coated tube       | 100               | 25                 | 0-60 nmol/L      | 2                  | 0.14 nmol/L                   | 60                |
| CORTISOL [I-125] RIA KIT     | RK-240CT | coated tube       | 100               | 10                 | 0 -1600 nmol/L   | 2                  | 2.9 nmol/L                    | 60                |
| PROGESTERONE [I-125] RIA KIT | RK-460CT | coated tube       | 100               | 20                 | 0 -120 nmol/L    | 1                  | 0.11 nmol/L                   | 60                |
| DHEA-SO4 [I-125] RIA KIT     | RK-620CT | coated tube       | 100               | 10                 | 0 -30 µmol/L     | 1                  | 0.064 µmol/L                  | 60                |



# Serum proteins

| Product Name                | Code     | Separation Method | Pack Size (Tests) | Sample volume (µl) | Calibrator range | Incubation (Hours) | Analytical Sensitivity or LoD | Shelf life (days) |
|-----------------------------|----------|-------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|-------------------|
| PAPP-A [I-125] IRMA KIT     | RK-4CT   | coated tube       | 100               | 10                 | 0-45 µg/mL       | 2                  | 0.0143 µg/mL                  | 60                |
| hGH [I-125] IRMA KIT        | RK-5CT   | coated tube       | 100               | 50                 | 0-100 µIU/mL     | 2                  | 0.04 µIU/mL                   | 60                |
| SHBG [I-125] IRMA KIT       | RK-86CT  | coated tube       | 100               | 10                 | 0-250 nmol/L     | 2                  | 0.11 nmol/L                   | 60                |
| hLH [I-125] IRMA KIT        | RK-750CT | coated tube       | 100               | 100                | 0-150 mIU/mL     | 1                  | 0.09 mIU/mL                   | 60                |
| hPRL [I-125] IRMA KIT       | RK-780CT | coated tube       | 100               | 100                | 0-170 ng/mL      | 1                  | 0.12 ng/mL                    | 60                |
| hFSH [I-125] IRMA KIT       | RK-790CT | coated tube       | 100               | 100                | 0-150 mIU/mL     | 1                  | 0.08 mIU/mL                   | 60                |
| Ferritin [I-125] IRMA KIT   | RK-900CT | coated tube       | 100               | 40                 | 0-1000 ng/mL     | 1                  | 0.6 ng/mL                     | 60                |
| βhCG [I-125] IRMA KIT       | RK-760CT | coated tube       | 100               | 50                 | 0 - 1000 mIU/mL  | 2                  | 0.651 mIU/mL                  | 60                |
| FREE β-hCG [I-125] IRMA KIT | RK-820CT | coated tube       | 100               | 50                 | 0 - 100 mIU/mL   | 1 + 1              | 0.02 mIU/mL                   | 60                |

# IVD kits in animal research



Most of our in vitro diagnostic tests are designed for use with human samples, but some analytes are not species-specific. Analytes such as steroid hormones (Cortisol, Progesterone, Testosterone), and thyroid hormones (T3, T4, FT3, FT4) are identical across many animal species and can be measured successfully using our immunoassay kits intended for human samples.

Izotop in vitro diagnostic RIA kits have been successfully used by many investigators worldwide as a valuable support to animal science research.

Visit our website for a detailed list of publications.  
<https://www.izotop.hu/research-immunoassay-kits/>



# Research Immunoassay kits

## ▶ Rat hormones and human Complements

| Product code | Product name  | Pack Size (Tests) |
|--------------|---|-------------------|
| RK-554       | rTSH (rat thyroid stimulating hormone) RIA kit              | 120               |
| RK-554Cset   | rTSH (rat thyroid stimulating hormone) RIA kit Control set  | -                 |
| RK-547       | rInsulin RIA kit  | 120               |
| RK-547CT     | rInsulin IRMA kit coated tube version                       | 100               |
| RK-548       | rCorticosterone RIA kit                                     | 120               |
| RK-548CT     | rCorticosterone RIA kit coated tube version                 | 100               |
| RK-550       | rFSH (rat follicle stimulating hormone) RIA kit             | 120               |
| RK-550Cset   | rFSH (rat follicle stimulating hormone) RIA kit Control set | -                 |
| RK-551       | rGH (rat growth hormone) RIA kit                            | 120               |
| RK-551Cset   | rGH (rat growth hormone) RIA kit Control set                | -                 |
| RK-552       | rLH (rat luteinizing hormone) RIA kit                       | 120               |
| RK-552Cset   | rLH (rat luteinizing hormone) RIA kit Control set           | -                 |
| RK-553       | rPRL (rat prolactin) RIA kit                                | 120               |
| RK-553Cset   | rPRL (rat prolactin) RIA kit Control set                    | -                 |
| RK-518       | C3a (human complement C3a des Arg) RIA kit                  | 150               |
| RK-518Cset   | C3a (human complement C3a des Arg) RIA kit Control set      | -                 |
| RK-519       | C4a (human complement C4a des Arg) RIA kit                  | 150               |
| RK-519Cset   | C4a (human complement C4a des Arg) RIA kit Control set      | -                 |
| RK-520       | C5a (human complement C5a des Arg) RIA kit                  | 150               |
| RK-520Cset   | C5a (human complement C5a des Arg) RIA kit Control set      | -                 |

## I-125 labelled compounds for research

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For more information please visit our website

<https://www.izotop.hu/other-i-125-labelled-compounds>



125 |

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