

## Rat Dipeptidyl Peptidase IV (DPP4) ELISA Kit | DPP4 elisa kit

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CATALOG #  
AAA20455

REACTIVITY  
Rat

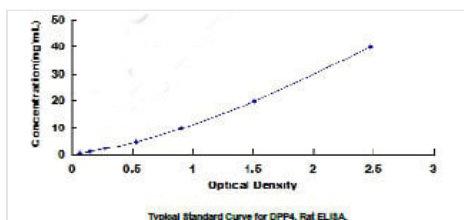
### PRODUCT SYNONYMS

Dipeptidyl Peptidase IV (DPP4); Rat Dipeptidyl Peptidase IV (DPP4) ELISA Kit; CD26; ADA; DPPIV; DPP-IV; ADABP; ADCP2; TP103; Adenosine Deaminase Complexing Protein 2; T-cell activation antigen CD26; DPP4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of DPP4. No significant cross-reactivity or interference between DPP4 and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross- reactivity detection between DPP4 and all the analogues, therefore, cross reaction may still exist.                                                                                                                |
| Sequence Length         | 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Assay Type              | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Serum, Plasma and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detection Range         | 0.625-40ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | 0.269ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DPP4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DPP4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for DPP4 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DPP4 in rat serum, plasma and other biological fluids.</p> <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DPP4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to DPP4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DPP4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of DPP4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
| Product Categories/Family for DPP4 elisa kit   | Signal transduction; Enzyme & Kinase; Apoptosis; Tumor immunity; Endocrinology; Cardiovascular biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 1195575                          |
| NCBI GeneID                      | 1803                             |
| UniProt Accession #              | P27487; Q53TN1                   |
| Molecular Weight                 | 88,279 Da                        |
| NCBI Official Full Name          | dipeptidyl peptidase IV, partial |
| NCBI Official Synonym Full Names | dipeptidyl-peptidase 4           |
| NCBI Official Symbol             | DPP4                             |
| NCBI Official Synonym Symbols    | CD26; ADABP; ADCP2; DPPIV; TP103 |
| NCBI Protein Information         | dipeptidyl peptidase 4           |
| UniProt Protein Name             | Dipeptidyl peptidase 4           |
| UniProt Gene Name                | DPP4                             |
| UniProt Synonym Gene Names       | ADCP2; CD26; ADCP-2; DPP IV      |
| UniProt Entry Name               | DPP4_HUMAN                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.