

## Human ERAP2 (Endoplasmic Reticulum Aminopeptidase 2) ELISA Kit | ERAP2 elisa kit

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CATALOG #  
**AAA249250**

REACTIVITY  
**Human**

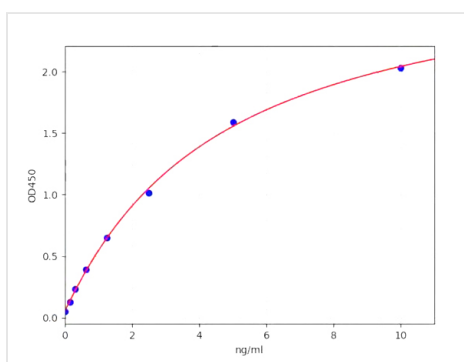
### PRODUCT SYNONYMS

ERAP2 (Endoplasmic Reticulum Aminopeptidase 2); Human ERAP2 (Endoplasmic Reticulum Aminopeptidase 2) ELISA Kit; LRAP; Leukocyte-derived arginine aminopeptidase; L-RAP; ERAP2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Specificity             | Specifically recognize ERAP2, no obvious cross reaction with other analogues                                                                                 |
| Sequence Length         | 960                                                                                                                                                          |
| Assay Type              | Sandwich                                                                                                                                                     |
| Samples                 | Serum, plasma, cell culture supernatant and other biological samples                                                                                         |
| Detection Range         | 0.156-10ng/ml                                                                                                                                                |
| Sensitivity             | 0.094ng/ml                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.                                                    |
| Inter-assay Precision   | Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.                                        |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ERAP2 elisa kit | <p>Background: Endoplasmic reticulum aminopeptidase 2 (ERAP2) is a proteolytic enzyme involved in adaptive immunity. Induced by interferon-gamma, ERAP2 is able to trim various MHC class I antigenic peptide precursors. It belongs to the oxytocinase subfamily of M1 aminopeptidases, which also includes aminopeptidases PILS/ARTS1/ERAP1 and LNPEP/PLAP. In addition to antigen presentation, the members of this subfamily are also important in maintenance of pregnancy, memory retention, and blood pressure regulation.</p> <p>Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti ERAP2 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti ERAP2 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with ERAP2 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of ERAP2 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| NCBI GI #                        | 11641261                                         |
| NCBI GeneID                      | 64167                                            |
| NCBI Accession #                 | NP_071745                                        |
| NCBI GenBank Nucleotide #        | NP_071745.1                                      |
| UniProt Accession #              | Q6P179                                           |
| NCBI Official Full Name          | endoplasmic reticulum aminopeptidase 2 isoform 1 |
| NCBI Official Synonym Full Names | endoplasmic reticulum aminopeptidase 2           |
| NCBI Official Symbol             | ERAP2                                            |
| NCBI Official Synonym Symbols    | LRAP; L-RAP                                      |
| NCBI Protein Information         | endoplasmic reticulum aminopeptidase 2           |
| UniProt Protein Name             | Endoplasmic reticulum aminopeptidase 2           |
| UniProt Gene Name                | ERAP2                                            |
| UniProt Synonym Gene Names       | LRAP; L-RAP                                      |
| UniProt Entry Name               | ERAP2_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.