

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

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CATALOG #
AAA249250

REACTIVITY
Human

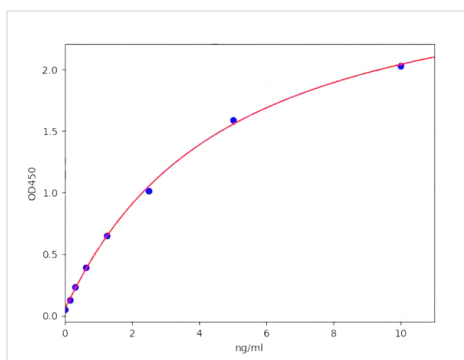
PRODUCT SYNONYMS

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	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. 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.
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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.