

# Endoplasmic Reticulum Aminopeptidase 2 Recombinant Protein | ERAP2 recombinant protein

Recombinant Endoplasmic Reticulum Aminopeptidase 2 (ERAP2)

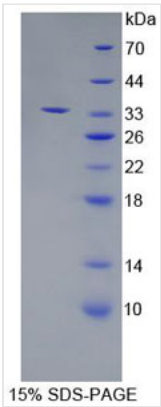
|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA143944</b> | HOST<br><b>E.Coli</b> | APPLICATIONS<br><b>SDS-Page, Western Blot</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

## PRODUCT SYNONYMS

Endoplasmic Reticulum Aminopeptidase 2; Recombinant Endoplasmic Reticulum Aminopeptidase 2 (ERAP2); ERAP2 recombinant protein

## PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E.Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity/Purification                                   | >97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Form/Format                                           | Freeze-dried powder; 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence                                              | PSSYHFTEDP GAFPVATNGE RFPWQELRLP SVMPLHYDL FVHPNLTSLD FVASEKIEVL VSNATQFIIL<br>HSKDLEITNA TLQSEEDSRY MKPGKELKVL SYPAHEQIAL LVPEKLTPHL KYYVAMDFQA KLGDGFEGFY<br>KSTYRTLGG E TRILAVTDFE PTQARMAFPC FDEPLFKANF SIKIRRESRH IALSNMPKVK TIELEGG LLE<br>DHFETTVKMS TYLVAYIVCD F                                                                                                                                                                                                                                                                                                                    |
| Applicable Applications for ERAP2 recombinant protein | SDS-PAGE, Immunogen, WB (Western Blot), Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Organism Species                                      | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source                                                | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Original Concentration                                | 100ug/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Residues                                              | Pro41~Phe271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tags                                                  | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular Location                                  | Membrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Original COncentration                                | 1007g/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isoelectric point                                     | Predicted: 5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Usage                                                 | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Phenomenon explanation                                | The possible reasons that the actual band size differs from the predicted are as follows:<br>1. Splice variants: Alternative splicing may create different sized proteins from the same gene.<br>2. Relative charge: The composition of amino acids may affects the charge of the protein.<br>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.<br>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.<br>5. Polymerization of the target protein: Dimerization, multimerization etc. |
| Preparation and Storage                               | <b>Storage:</b> Avoid repeated freeze/thaw cycles.<br>Store at 2-8°C for one month.<br>Aliquot and store at -80°C for 12 months.<br><br><b>Stability Test:</b> The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.                                                                                          |



SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 194306629                                                                                          |
| NCBI GeneID                      | 64167                                                                                              |
| NCBI Accession #                 | NP_001123612.1                                                                                     |
| NCBI GenBank Nucleotide #        | NM_001130140.1                                                                                     |
| Molecular Weight                 | <b>Predicted:</b> 30.0kDa<br><b>Accurate:</b> 34kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | endoplasmic reticulum aminopeptidase 2                                                             |
| 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                | <b>ERAP2</b>                                                                                       |
| 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.