**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human Aminopeptidase LRAP/ERAP2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human PILS is observed.

**Source**  
Monoclonal Mouse IgG1 Clone # 3F5

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
*S. frugiperda* insect ovarian cell line Sf21-derived recombinant human Aminopeptidase LRAP/ERAP2  
Accession # Q6P179

**Formulation**  
Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  
*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Western Blot</th>
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<tbody>
<tr>
<td>Recommended Concentration</td>
<td>1 μg/mL</td>
</tr>
<tr>
<td>Recombinant Human Aminopeptidase LRAP/ERAP2</td>
<td>(Catalog # 3830-ZN)</td>
</tr>
</tbody>
</table>

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Leukocyte-derived arginine aminopeptidase (LRAP) and endoplasmic reticulum-aminopeptidase 2 (ERAP2) are the two names given to the protein encoded by the LRAP gene (1, 2). Induced by interferon-γ, LRAP 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 (1, 3). In addition to antigen presentation, the members of this subfamily are also important in maintenance of pregnancy, memory retention, and blood pressure regulation (3).

**References:**