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**Product Name: ERAP1 Rabbit Monoclonal Antibody****Catalog #: AMRe84579**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	0.62mg/ml. The concentration of this product may be batch-dependent.
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide,0.05% protective protein and 50% glycerol.
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:1000-1:2000,IHC 1:100-1:200
<b>Molecular Weight</b>	Calculated MW: 107 kDa ; Observed MW: 100 kDa

**Antigen Information**

<b>Gene Name</b>	ERAP1
<b>Alternative Names</b>	ALAP; Aminopeptidase PILS; APPILS; Arts1; Endoplasmic reticulum aminopeptidase 1; ERAAP; ERAAP1; Erap1; PILSA; PILSAP;;ERAP1
<b>Gene ID</b>	
<b>SwissProt ID</b>	Q9NZ08
<b>Immunogen</b>	A synthesized peptide derived from human ERAP1

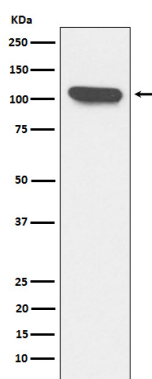
**Background**

Aminopeptidase that plays a central role in peptide trimming, a step required for the generation of most HLA class I-binding

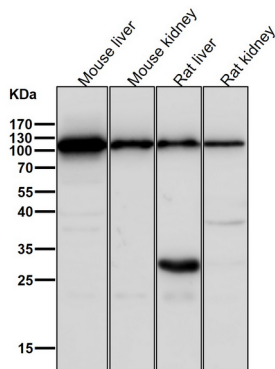
peptides. Peptide trimming is essential to customize longer precursor peptides to fit them to the correct length required for presentation on MHC class I molecules. Strongly prefers substrates 9-16 residues long. Rapidly degrades 13-mer to a 9-mer and then stops. Preferentially hydrolyzes the residue Leu and peptides with a hydrophobic C-terminus, while it has weak activity toward peptides with charged C-terminus.

## Research Area

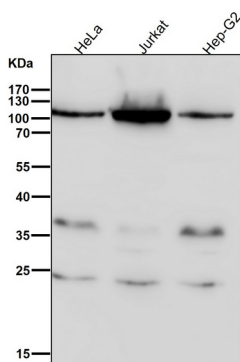
## Image Data



Western blot analysis of ERAP1 expression in K562 cell lysate.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



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