

Product datasheet for TP524333

Erap1 (NM_030711) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse endoplasmic reticulum aminopeptidase 1 (Erap1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR224333 representing NM_030711 Red=Cloning site Green=Tags(s)

MPSLLPLVLTFLSVSSPSWCQNSDIESLKASNGDSFPWNNMRLPEYMTPIHYDLMIHANLSTLTFWGKTE
VEIIASRPTSTIIMHSHHLQISKATLRRGAGEMLSEEPKLVLEYPHEQVALLAAQPLLAGSLYTVIIDY
AANLSESFHGFYKSTYRTQEGEMRILAATQFEPTAARMAFPCFDEPALKASFSIKIKRDPRLAISNMPL
VKSVNVAEGLIEDHFDITVKMSTYLVAFIISDFKSVSKMTKSGVKVSVYAVPDKINQADYALDAAVTLE
FYEDYFNIPYPLPKQDLAAIPDFQSGAMENWGLTTYRESSLLYDKEKSSASSKLGITMIVSHELAHQWFG
NLVTMEWWNDLWLNNEGFAKFMFVSVTVTHPELKVEDYFFGKCFNAMEVDALNSSHPVSTPVENPAQIRE
MFDDVSYEKGACILNMLRDYLSADTFKRGIVQYLQKYSYKNTKNEDLWNSMMHICPTDGTQTMDFGCSRS
QHSSSTSHWRQEVVDVKTMMNTWTLQKGFPLITITVSGRNVHMKQEHYMKGSERFPETGYLWHVPLTFIT
SKSDSVQRFLKTKTDVLLPEAVQWIKFNVGMNGYIVHYADDGWASLSGLLKEAHTTISSNDRASLIN
NAFQLVSIKLSIEKALDLTYLKNETEIMPIFQALNELIPMYKLMKRDMEVETQFKDFLLKLLKDLI
DKQWTWDEGSVSRMLRSQLLLLACVRNYQPCVQRAERYFREWKSSNGNMSIPIDVTLAVFAVGAQNTG
WDFLYSKYQSSLSSTEKSQIEFSLCTSKDPEKLQWLLDQSFKGEIIKTQEFPHILTIGRNPVGYPLAWK
FLRENWNKLVQKFELGSSSIAHMVMGTTDQFSTRARLEEVKGGFFSSLKENGSQLRCVQQTIIETIEENIRW
MDKNFDKIRLWLQKEPELL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	107 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_109636
Locus ID:	80898
UniProt ID:	Q9EQH2
RefSeq Size:	4014
Cytogenetics:	13 C1
RefSeq ORF:	2790
Synonyms:	Arts1; ERAAP; PILSA; PILSAP
Summary:	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. May play a role in the inactivation of peptide hormones. May be involved in the regulation of blood pressure through the inactivation of angiotensin II and/or the generation of bradykinin in the kidney (By similarity).[UniProtKB/Swiss-Prot Function]