

Datasheet for ABIN7599949
anti-ERAP2 antibody (AA 13-960)



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Overview

Quantity:	100 µg
Target:	ERAP2
Binding Specificity:	AA 13-960
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERAP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ERAP2 Antibody Picoband®
Immunogen:	E.coli-derived human ERAP2 recombinant protein (Position: K13-T960).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ERAP2 Antibody Picoband® (ABIN7599949). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ERAP2
Alternative Name:	ERAP2 (ERAP2 Products)
Background:	<p>Synonyms: Calretinin, CR, 29 kDa calbindin, CALB2, CAB29</p> <p>Tissue Specificity: Brain.</p> <p>Background: Endoplasmic reticulum aminopeptidase 2 is a protein that in humans is encoded by the ERAP2 gene. This gene encodes a zinc metalloaminopeptidase of the M1 protease family that resides in the endoplasmic reticulum and functions in N-terminal trimming antigenic epitopes for presentation by major histocompatibility complex (MHC) class I molecules. Certain mutations in this gene are associated with the inflammatory arthritis syndrome ankylosing spondylitis and pre-eclampsia. This gene is located adjacent to a closely related aminopeptidase gene on chromosome 5.</p>
Molecular Weight:	110 kDa
Gene ID:	64167
UniProt:	Q6P179

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Cagliani, R., Riva, S., Biasin, M., Fumagalli, M., Pozzoli, U., Lo Caputo, S., Mazzotta, F., Piacentini, L., Bresolin, N., Clerici, M., Sironi, M. Genetic diversity at endoplasmic reticulum aminopeptidases is maintained by balancing selection and is associated with natural resistance to HIV-1 infection. Hum. Molec. Genet. 19: 4705-4714, 2010. 2. Saveanu, L., Carroll, O., Lindo, V., Del Val, M., Lopez, D., Lepelletier, Y., Greer, F., Schomburg, L., Fruci, D., Niedermann, G., van Endert, P. M. Concerted peptide trimming by human ERAP1 and ERAP2 aminopeptidase complexes in the endoplasmic reticulum. Nature Immun. 6: 689-697, 2005. 3. Tanioka, T., Hattori, A., Masuda, S., Nomura, Y., Nakayama, H., Mizutani, S., Tsujimoto, M. Human leukocyte-derived arginine aminopeptidase: the third member of the oxytocinase subfamily of aminopeptidases. J. Biol. Chem. 278: 32275-32283, 2003.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.