

ERAP2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5696c**Specification**

ERAP2 Antibody (Center) Blocking peptide - Product Information

Primary Accession [Q6P179](#)
Other Accession [NP_001123612.1](#)

ERAP2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 64167

Other Names

Endoplasmic reticulum aminopeptidase 2, 3411-, Leukocyte-derived arginine aminopeptidase, L-RAP, ERAP2, LRAP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ERAP2 Antibody (Center) Blocking peptide - Protein Information

Name ERAP2

Synonyms LRAP

Function

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. Preferentially hydrolyzes the basic residues Arg and Lys.

Cellular Location

Endoplasmic reticulum membrane; Single-pass type II membrane protein

Tissue Location

Ubiquitously expressed. Highly expressed in spleen and leukocytes.

ERAP2 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

ERAP2 Antibody (Center) Blocking peptide - Images

ERAP2 Antibody (Center) Blocking peptide - Background

Aminopeptidases hydrolyze N-terminal amino acids of proteins or peptide substrates. Major histocompatibility complex (MHC) class I molecules rely on aminopeptidases such as ERAP1 (MIM606832) and LRAP to trim precursors to antigenic peptides in the endoplasmic reticulum (ER) following cleavage in the cytoplasm by tripeptidyl peptidase II (TPP2; MIM 190470) (Tanioka et al., 2003 [PubMed 12799365]).

ERAP2 Antibody (Center) Blocking peptide - References

Saveanu, L., et al. Nat. Immunol. 6(7):689-697(2005) Tanioka, T., et al. FEBS J. 272(4):916-928(2005) Tanioka, T., et al. J. Biol. Chem. 278(34):32275-32283(2003) Hattori, A., et al. J. Biochem. 130(2):235-241(2001)