

A2ML1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP4723a

Specification

A2ML1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [A8K2U0](#)

A2ML1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 144568

Other Names

Alpha-2-macroglobulin-like protein 1, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 9, A2ML1 {ECO:0000312|EMBL:AAI121321}

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.

A2ML1 Antibody (N-term) Blocking Peptide - Protein Information

Name A2ML1 {ECO:0000312|EMBL:AAI12132.1}

Function

Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase (By similarity). Displays inhibitory activity against chymotrypsin, papain, thermolysin, subtilisin A and, to a lesser extent, elastase but not trypsin. May play an important role during desquamation by inhibiting extracellular proteases.

Cellular Location

Secreted.

Tissue Location

In the epidermis, expressed predominantly in the granular layer at the apical edge of keratinocytes (at protein level) Also detected in placenta, testis and thymus but not in epithelia of kidney, lung, small intestine or colon.

A2ML1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

A2ML1 Antibody (N-term) Blocking Peptide - Images

A2ML1 Antibody (N-term) Blocking Peptide - Background

A2ML1 is a new member of the alpha 2-macroglobulin protease inhibitor family, and shares most the characteristics of this family. It is the first family member detected in the epidermis and may play an important role during desquamation by inhibiting extracellular proteases.