abcam

Product datasheet

ADAM10 peptide ab7868

Description

Product name	ADAM10 peptide
Purity	> 70 % HPLC.
Animal free	No
Nature	Synthetic
Sequence	PQRQRPRESYQMGHMRR Amino acids 732 to 748 of human ADAM10 (1)
Amino acids	732 to 748

Specifications

Our **Abpromise guarantee** covers the use of **ab7868** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Blocking
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 7.20 Preservative: 0.02% Sodium azide Constituent: 0.1% BSA

General Info

Function	Cleaves the membrane-bound precursor of TNF-alpha at '76-Ala- -Val-77' to its mature soluble form. Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface. Responsible for the proteolytic release of several other cell-surface proteins, including heparin-binding epidermal growth-like factor, ephrin-A2 and for constitutive and regulated alpha-secretase cleavage of amyloid precursor protein (APP). Contributes to the normal cleavage of the cellular prion protein. Involved in the cleavage of the adhesion molecule L1

	at the cell surface and in released membrane vesicles, suggesting a vesicle-based protease activity. Controls also the proteolytic processing of Notch and mediates lateral inhibition during neurogenesis.
Tissue specificity	Expressed in spleen, lymph node, thymus, peripheral blood leukocyte, bone marrow, cartilage, chondrocytes and fetal liver.
Sequence similarities	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain.
Domain	The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.
Post-translational modifications	The precursor is cleaved by a furin endopeptidase.
Cellular localization	Cell membrane. Endomembrane system. Is localized in the plasma membrane but is predominantly expressed in the Golgi apparatus and in released membrane vesicles derived likely from the Golgi.

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