

Product datasheet

Recombinant Human ADAM17 protein ab114186

1 Image

Overview

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**Product name** Recombinant Human ADAM17 protein  
**Protein length** Protein fragment

Description

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**Nature** Recombinant  
**Source** Wheat germ

Amino Acid Sequence

**Accession** [P78536](#)  
**Species** Human  
**Sequence** RADPDPMKNTCKLLVVADHRFYRYMGRGEESTTTNYLIELIDRVDDIYRN  
 TSWDNAGFKGYGIQIEQIRILKSPQEVKPGEKHYNMAKSYPNEEKDAWDV  
**Molecular weight** 37 kDa including tags  
**Amino acids** 215 to 314

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab114186** in the following tested applications.

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

**Applications** SDS-PAGE  
 Western blot  
 ELISA

**Form** Liquid

**Additional notes** Protein concentration is above or equal to 0.05 mg/ml.  
 This protein is best used within three months from the date of receipt.

Preparation and Storage

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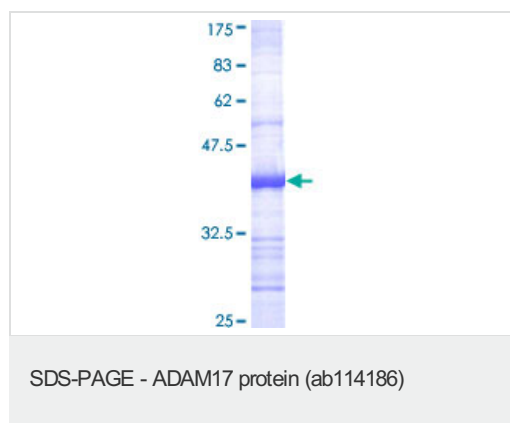
**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
 pH: 8.00

Constituents: 0.3% Glutathione, 0.79% Tris HCl

## General Info

<b>Function</b>	Cleaves the membrane-bound precursor of TNF-alpha 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 p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein. Also involved in the activation of Notch pathway.
<b>Tissue specificity</b>	Ubiquitously expressed. Expressed at highest levels in adult heart, placenta, skeletal muscle, pancreas, spleen, thymus, prostate, testes, ovary and small intestine, and in fetal brain, lung, liver and kidney.
<b>Sequence similarities</b>	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain.
<b>Domain</b>	Must be membrane anchored to cleave the different substrates. The cytoplasmic domain is not required for the this activity. Only the catalytic domain is essential to shed TNF and p75 TNFR. 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.
<b>Post-translational modifications</b>	The precursor is cleaved by a furin endopeptidase. Phosphorylated. Stimulation by growth factor or phorbol 12-myristate 13-acetate induces phosphorylation of Ser-819 but decreases phosphorylation of Ser-791.
<b>Cellular localization</b>	Membrane.

## Images



ab114186 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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