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Datasheet for ABIN7538118  
**ADAM17 Protein (AA 581-642) (mFc Tag)**

### Overview

Quantity:	50 µg
Target:	ADAM17
Protein Characteristics:	AA 581-642
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAM17 protein is labelled with mFc Tag.

### Product Details

Purpose:	Recombinant human ADAM17(581-642) Protein with C-terminal mouse Fc tag
Specificity:	ADAM17 (Phe581-Glu642) mFc (Pro99-Lys330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

### Target Details

Target:	ADAM17
Alternative Name:	ADAM17 ( <a href="#">ADAM17 Products</a> )
Background:	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family.

## Target Details

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Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biologic processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The encoded preproprotein is proteolytically processed to generate the mature protease. The encoded protease functions in the ectodomain shedding of tumor necrosis factor-alpha, in which soluble tumor necrosis factor-alpha is released from the membrane-bound precursor. This protease also functions in the processing of numerous other substrates, including cell adhesion proteins, cytokine and growth factor receptors and epidermal growth factor (EGF) receptor ligands, and plays a prominent role in the activation of the Notch signaling pathway. Elevated expression of this gene has been observed in specific cell types derived from psoriasis, rheumatoid arthritis, multiple sclerosis and Crohn's disease patients, suggesting that the encoded protein may play a role in autoimmune disease. Additionally, this protease may play a role in viral infection through its cleavage of ACE2, the cellular receptor for SARS-CoV and SARS-CoV-2. [provided by RefSeq, Aug 2020]

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Molecular Weight: predicted molecular mass of 33.2 kDa after removal of the signal peptide. The apparent molecular mass of ADAM17(581-642)-mFc is 35-55 kDa due to glycosylation.

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UniProt: [P78536](#)

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Pathways: [Notch Signaling](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Response to Growth Hormone Stimulus](#)

## Application Details

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Restrictions: For Research Use only

### Handling

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Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

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Expiry Date: 12 months