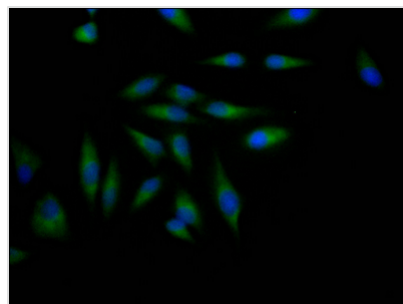




ADAM17 Antibody

Product Code	CSB-RA797631A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P78536
Immunogen	A synthesized peptide derived from human ADAM17
Species Reactivity	Human
Tested Applications	ELISA, IF; Recommended dilution: IF:1:20-1:200
Relevance	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. Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). Plays a role in the proteolytic processing of ACE2.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cancer; Cell biology; Metabolism; Signal transduction; Stem cells
Gene Names	ADAM17
Accession NO.	5A1

Image



Immunofluorescence staining of HeLa Cells with CSB-RA797631A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Description

ADAM17 is a membrane-bound protease involved in the cleavage and control of a variety of membrane proteins, including adhesion molecules, cytokines, and cytokine receptors, playing an important role during liver injury. ADAM17 sheddase activity is induced upon cell activation and rapidly regulates intravascular adhesion events in response to diverse environmental stimuli. ADAM17 contributes to the TNF- α release and thus to the paracrine and systemic activity of the cytokine. ADAM17 is involved in many pathological processes such as cancer, inflammatory diseases, neurological diseases, cardiovascular diseases, atherosclerosis, diabetes, and hypertension.

The recombinant ADAM17 antibody is a monoclonal antibody made in vitro using the ADAM17 antibody genes that are typically expressed from a plasmid in a stable mammalian cell line. The genes coding for the ADAM17 antibody will ultimately assemble into a fully functional antibody after translation. The synthesized antibody is the recombinant antibody against ADAM17. It underwent purification using Affinity-chromatography. This recombinant ADAM17 antibody is suitable for use in the ELISA, IF to detect the ADAM17 protein from Human.