

Rabbit ADAM 17 Polyclonal Antibody | anti-ADAM17 antibody

Phospho-ADAM 17 (Thr735) Antibody

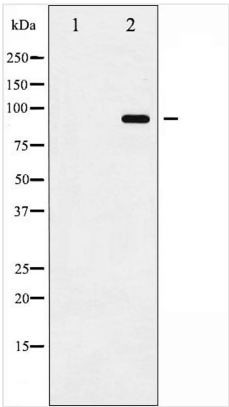
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321664	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

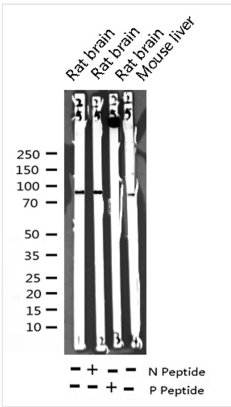
ADAM 17; Polyclonal Antibody; Phospho-ADAM 17 (Thr735) Antibody; A disintegrin and metalloproteinase domain 17 (tumor necrosis factor; alpha; converting enzyme); A disintegrin and metalloproteinase domain 17; ADA17_HUMAN; ADAM metalloproteinase domain 17; ADAM17; ADAM17 protein; CD 156b; CD156b; CD156b antigen; CSVP; Disintegrin and metalloproteinase domain-containing protein 17; MGC71942; NISBD; NISBD1; Snake venom like protease; Snake venom-like protease; TACE; TNF alpha convertase; TNF alpha converting enzyme; TNF-alpha convertase; TNF-alpha-converting enzyme; Tumor Necrosis Factor Alpha Converting Enzyme; anti-ADAM17 antibody

PRODUCT SPECIFICATIONS

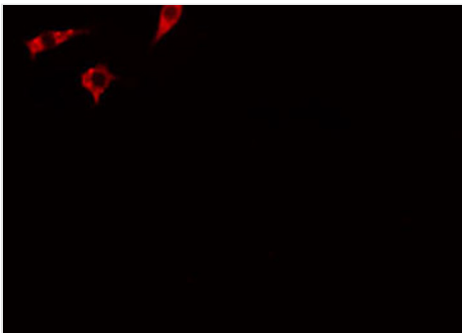
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-ADAM 17 (Thr735) antibody detects endogenous levels of ADAM 17 only when phosphorylated at Threonine 735
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	824
Applicable Applications for anti-ADAM17 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ADAM 17 around the phosphorylation site of Threonine 735
Subcellular Location	Membrane.
Tissue Specificity	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.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Dog
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Thr735
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of ADAM 17 phosphorylation expression in K562UV treated whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-ADAM 17 (Thr735) expression in various lysates



IF (Immunofluorescence)
AAA321664 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAM17 antibody

Description: This gene encodes a disintegrin and metalloprotease (ADAM) domain 17, which is a member of the ADAM protein family. 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.

Function: Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form. Responsible for the proteolytic 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.

Subunit Structure: Interacts with MAD2L1, MAPK14 and MUC1.

Post-translational Modifications: 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. Phosphorylation at THR-735 by MAPK14 is required for ADAM17-mediated ectodomain shedding.

Similarity: 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 (By similarity).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.

NCBI AND UNIPROT INFORMATION

NCBI GI # 73747889

NCBI GeneID	6868
NCBI Accession #	NP_003174.3
NCBI GenBank Nucleotide #	NM_003183.6
UniProt Accession #	P78536; O60226
Molecular Weight	Observed: 93 kDa Predicted: 94 kDa
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 17 preproprotein
NCBI Official Synonym Full Names	ADAM metalloproteinase domain 17
NCBI Official Symbol	ADAM17
NCBI Official Synonym Symbols	CSVP; TACE; NISBD; ADAM18; CD156B; NISBD1
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 17
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 17
UniProt Gene Name	ADAM17
UniProt Synonym Gene Names	CSVP; TACE; ADAM 17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adam-17-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321664>