

Rabbit TACE Polyclonal Antibody | anti-ADAM17 antibody

TACE Antibody

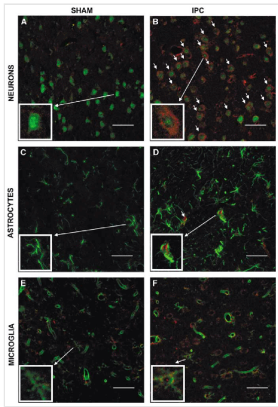
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10912	Rabbit	Human, Mouse, Rat	ELISA, Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

TACE; Polyclonal Antibody; TACE Antibody; CSVP; NISBD; ADAM18; CD156B; Disintegrin and metalloproteinase domain-containing protein 17; Snake venom-like protease; ADAM 17; ADAM metallopeptidase domain 17; anti-ADAM17 antibody

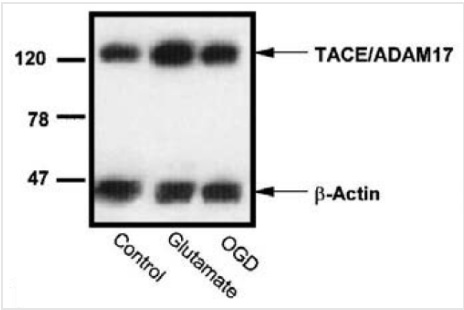
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	80 to 130 kDa bands can be detected, which may represent mature protein, precursor, and glycosylated TACE.
Purity/Purification	TACE Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	824
Applicable Applications for anti-ADAM17 antibody	ELISA, WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	TACE antibody can be used for detection of TACE by Western blot at 0.5 mug/mL. For immunocytochemistry use 10 mug/mL. For immunofluorescence start at 10 mug/mL.
Conjugate	Unconjugated
Immunogen	TACE antibody was raised against a peptide corresponding to 17 amino acids near the carboxy terminus of human TACE.
Buffer	TACE Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	TACE antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



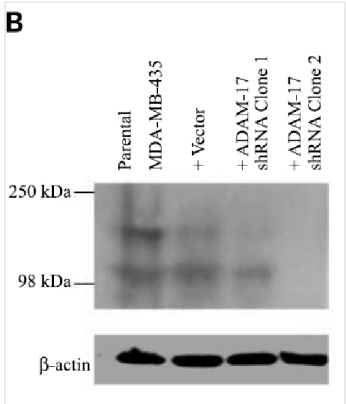
IF (Immunofluorescence)

Figure 10 Immunofluorescence Validation of TACE in Rat Brain (Pradillo et al, 2005)Cellular localization of TACE. Double immunofluorescence staining of brain sections from sham-operated (SHAM; A, C, E) and IPC-exposed animals (IPC; B, D, F) of TACE (red) and the cellular markers (green) NeuN (neurons; A, B), GFAP (astrocytes; C, D) and L. esculentum lectin (microglia and endothelium; E, F). White arrows indicate TACE-positive cells.



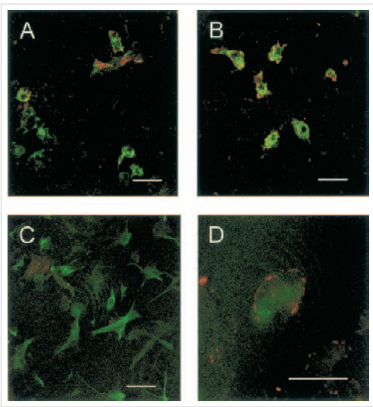
WB (Western Blot)

Figure 8 Induced Expression Validation of TACE in Rat Cortical Neurons (Hurtado et al., 2002)Effect of oxygen–glucose deprivation(OGD) or glutamate on the levels of TACE/ADAM17 in rat cortical cultures. Western blot analysis of TACE in homogenates from control, glutamate, and OGD-exposed cultures from a representative experiment.



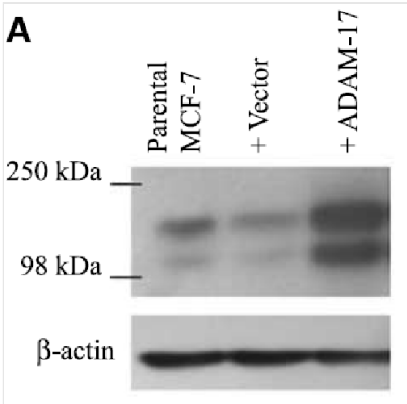
WB (Western Blot)

Figure 6 KD Validation of TACE in MDA-MB-435 Cells. (McGowan et al., 2007)ADAM-17 protein expression, following transfection with ADAM-17 shRNA (two clones) or neomycin-resistant negative control vector, was examined by immunoblot analysis with anti-ADAM-17 antibodies (1131).



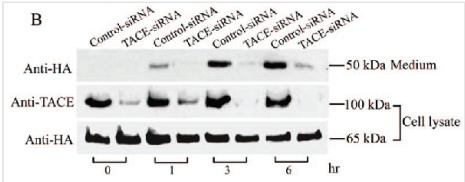
IF (Immunofluorescence)

Figure 9 Immunofluorescence Validation of TACE in Rat Cortical Neurons (Hurtado et al., 2002)Double immunostaining of control and glutamate-exposed rat cortical cultures. (A) Control cultures show TACE immunoreactivity at the cellular membrane of some microglial cells (B) Glutamate-exposed cultures show that most microglial cells express TACE immunoreactivity.(C) Control cultures show that TACE immunostaining does not colocalize with astrocytes [glial fibrillary acidic protein (GFAP)-positive cells]. (D) Astrocyte (GFAP-positive cell) showing TACE immunoreactivity in its surface after treatment with glutamate.



WB (Western Blot)

Figure 7 Overexpression Validation of TACE in MCF-7 Cells. (McGowan et al., 2007)ADAM-17 (TACE) protein expression, following transfection of vector and ADAM-17 cDNA, was examined by immunoblot analysis with anti-ADAM-17 (1131) antibodies in MCF-7 cells. Increased ADAM-17 was detected in ADAM-17 transfected cells.



WB (Western Blot)

Figure 5 KD Validation of TACE in Monkey COS Cells. (Wang et al., 2006)COS cells stably expressing Pref-1A were transfected with control siRNA or TACE siRNA. TACE was detected in lysates by using the anti-TACE antibody (1131). TACE expression levels were markedly reduced in TACE knockdown cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAM17 antibody	TACE Antibody: Tumor-necrosis factor-alpha is a proinflammatory cytokine and contributes to a variety of inflammatory disease responses and programmed cell death. TNF-? is synthesized as a 26K type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17K mature TNF-?. TNF-? converting enzyme (TACE) protein was recently purified and the human and mouse TACE cDNAs were cloned by several groups separately. TACE is a membrane-bound metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease). TACE also processes other cell surface proteins, including TNF receptor, TGFalpha, the L-selectin adhesion molecule, and alpha-cleavage of amyloid protein precursor (APP). TACE mRNA is expressed in a variety of human and murine tissues. TACE was selected as one of the few targets in cytokine activation by the Eighth International Conference of the Inflammation Research Association.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	73747889
NCBI GeneID	6868
NCBI Accession #	NP_003174
NCBI GenBank Nucleotide #	NM_003183.4
UniProt Accession #	P78536; O60226
Molecular Weight	Predicted: 93 kDa
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 17 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase 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; TNF-alpha convertase; snake venom-like protease; TNF-alpha converting enzyme; ADAM metallopeptidase domain 18; tumor necrosis factor, alpha, converting enzyme
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 17
UniProt Gene Name	ADAM17
UniProt Synonym Gene Names	CSVP; TACE; ADAM 17
UniProt Entry Name	ADA17_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/tace-antibody-western-blot-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/10912>