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Datasheet for 600-401-H24

TACE Antibody

Overview

Description:	Anti-TACE (RABBIT) Antibody - 600-401-H24
Item No.:	600-401-H24
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	TACE Antibody detects TNF-alpha. Tumor-necrosis factor-alpha is a proinflammatory cytokine and contributes to a variety of inflammatory disease responses and programmed cell death. TNF-alpha; is synthesized as a 26K type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17K mature TNF-alpha;. TNF-alpha; 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. Anti-TACE antibodies are ideal for investigators involved in Apoptosis and Cytokines and Growth factor research.
Synonyms:	ADAM17, ADAM18, CD156B, CSVP, NISBD, NISBD1, TACE
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ADAM17
Reactivity:	Human, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	TACE Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human TACE. This sequence differs from those of mouse and rat TACE by one amino acid. The immunogen is located within the last 50 amino acids of TACE.
Purity/Specificity:	Anti-TACE Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Predicted species reactivity based on immunogen sequence: mouse (94.1%). Cross-reactivity with TACE from other sources has not been determined.
Relevant Links:	• NCBI - NP_003174 • UniProtKB - P78536 • GeneID - 6868

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TACE Antibody is tested for use in ELISA, WB, ICC, and IF. Expect a band approximately ~93.0 kDa on specific lysates. 80 to 130kDa bands can be detected, which may represent mature protein, precursor and glycosylated TACE. Western Blot and Immunofluorescence tested in human and rat samples; Immunocytochemistry in human samples. Positive Control used HeLa Cells, Jurkat Cells, and Raji Cells. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	10ug/ml
WB:	0.25-2µg/mL

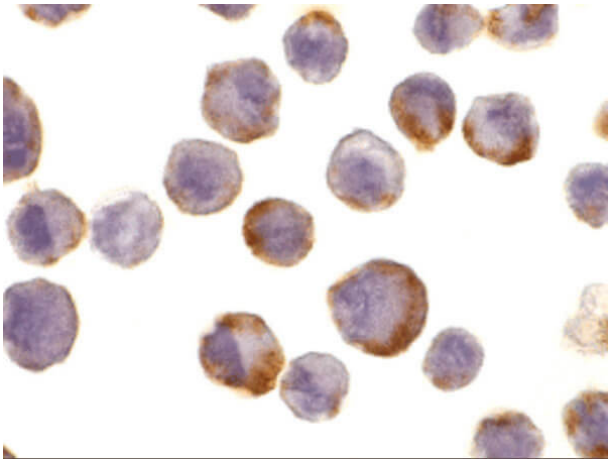
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

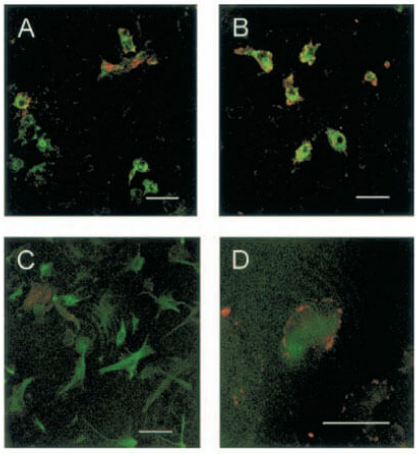
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

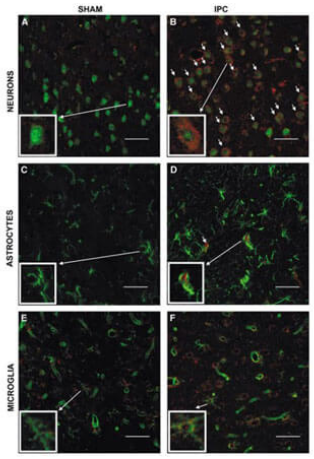
Images



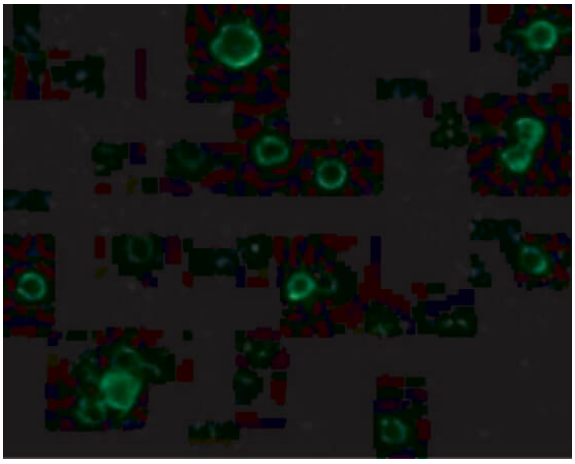
Immunocytochemistry
Immunocytochemistry of Rabbit Anti-TACE Antibody. Cells: HeLa cells. Primary Antibody: Anti-TACE antibody at 10 µg/ml overnight at 2-8°C. Fixation: formaldehyde and blocked with 10% serum for 1 h at RT. Antigen Retrieval: heat mediation with a citrate buffer (pH6). Secondary Antibody: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



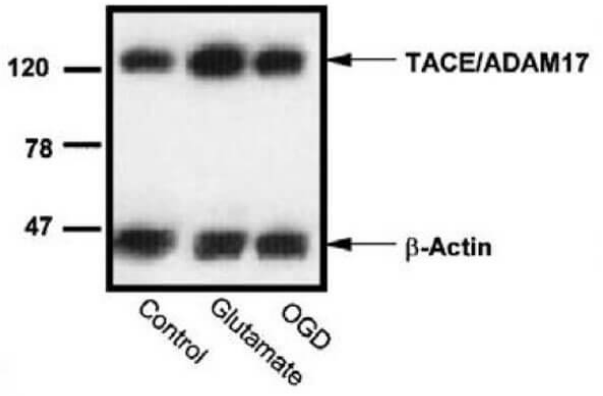
Immunofluorescence Microscopy
Immunofluorescence of Rabbit Anti-TACE Antibody. Cells: Rat Cortical Neurons. (A) Control cultures show TACE immunoreactivity at the cellular membrane of some microglial cells. (B) Glutamate-exposed cultures show that most microglial cells express TACE immunoreactivity. (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. Double immunostaining of control and glutamate-exposed rat cortical cultures. (Hurtado et al., 2002).



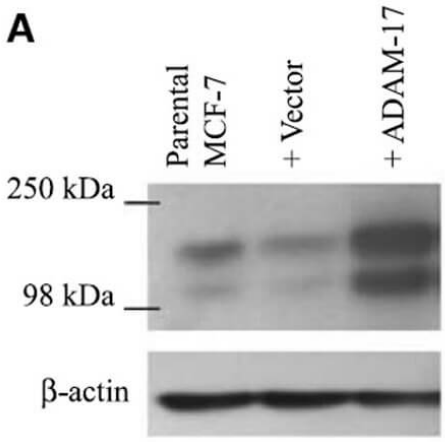
Immunofluorescence Microscopy
Immunofluorescence of Rabbit Anti-TACE Antibody. Cells: Rat Brain. Cellular localization of TACE. Double immunofluorescence staining of brain sections from sham-operated (SHAM; A, C, E) and IPC-exposed animals (IPC; B, D, F) of TACE (red) and the cellular markers (green)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



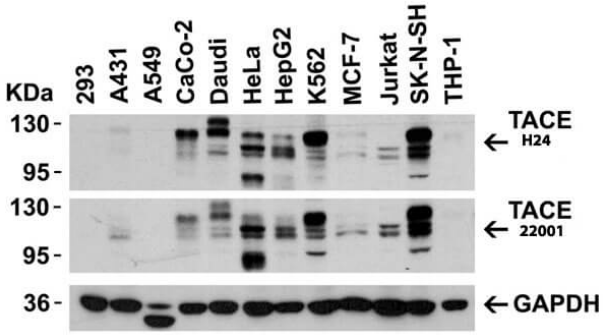
Immunofluorescence Microscopy
Immunofluorescence of Anti-TACE Antibody. Cells: HeLa Cells. Primary Antibody: Anti-TACE 10µg/mL. Secondary Antibody: Goat Anti-Rabbit IgG 1:500. Fixation: 4% paraformaldehyde.



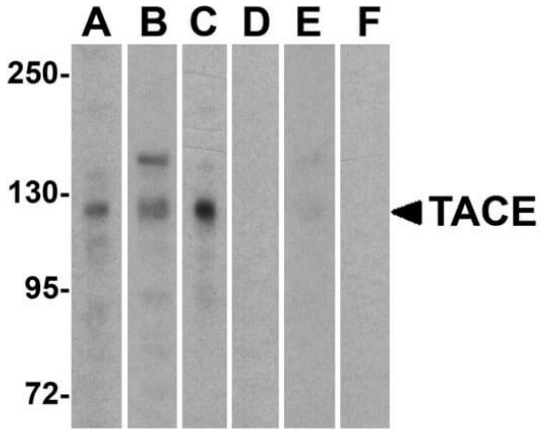
Western Blot
Western Blot of Anti-TACE Antibody. Effect of oxygen–glucose deprivation (OGD) or glutamate on the levels of TACE/ADAM17 in rat cortical cultures. (Hurtado et al., 2002). Western blot analysis of TACE in Rat Cortical Neuron homogenates from control, glutamate, and OGD-exposed cultures from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



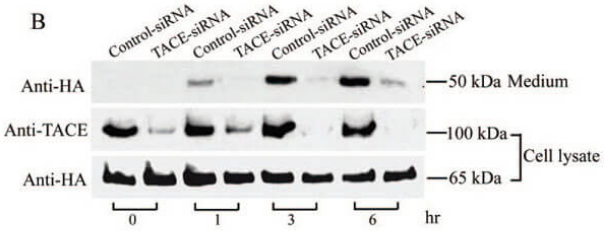
Western Blot
Western Blot of Anti-TACE (ADAM-17) Antibody. ADAM-17 (TACE) protein expression, following transfection of vector and ADAM-17 cDNA, was examined by immunoblot analysis with anti-ADAM-17 antibodies in MCF-7 cells. Increased ADAM-17 was detected in ADAM-17 transfected cells. (McGowan et al., 2007).



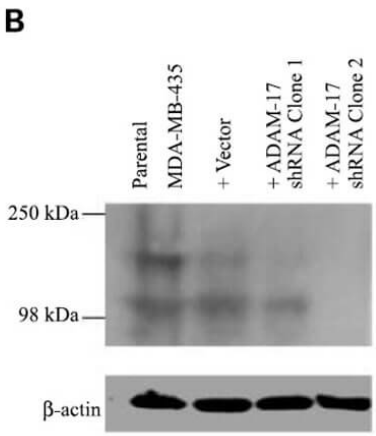
Western Blot
Western Blot of Rabbit Anti-TACE Antibody. Loading: 15 µg of lysates per lane. Primary Antibodies: Anti-TACE 600-401-H24 (0.5 µg/mL), TACE 22001 (2 µg/mL), and GAPDH (0.02 µg/mL), for 1h incubation at RT. Block: 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000. Expect: ~93kDa.



Western Blot
Western Blot of Rabbit Anti-TACE Antibody. Lane (A, D): HeLa. Lane (B, E): Jurkat. Lane (C, F): Raji. Lanes A-C are in the absence or Lanes D-F are in the presence of blocking peptide. Primary Antibody: Anti-TACE at 1µg/mL RT for 1hr. Secondary Antibody: Goat Anti-Rabbit IgG HRP at 1:10,000. Blocking 5% NFDM/TBST. Expect: ~93kDa.



Western Blot
Western Blot of Rabbit Anti-TACE Antibody. Monkey 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. TACE expression levels were markedly reduced in TACE knockdown cell lysate. (Wang et al., 2006).



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

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