Product Datasheet

ADAM17 Antibody (orb1240074)

Catalog Number	orb1240074
Category	Antibodies
Description	ADAM17 Antibody
Target	ADAM17
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human, Rat
Predicted Reactivity	Mouse
Form/Appearance	Liquid
Concentration	1 mg/mL
Buffer/Preservatives	TACE Antibody is supplied in PBS containing 0.02% sodium azide.
Purification	TACE Antibody is affinity chromatography purified via peptide column.
Immunogen	Anti-TACE antibody (orb1240074) was raised against a peptide corresponding to 17 amino acids near the carboxy terminus of human TACE. The immunogen is located within the last 50 amino acids of TACE.
UniProt ID	P78536
MW	Predicted: 93kDObserved: 93-125kD (Post-modification: 9 N-linked glycosylation)

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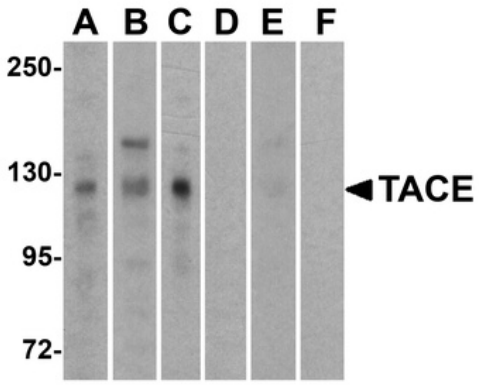
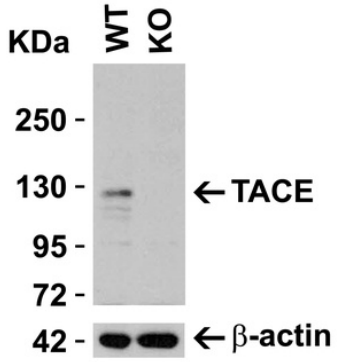
Tested applications	ELISA, ICC, IF, WB
Specificity	80 to 130 kDa bands can be detected, which may represent mature protein, precursor, and glycosylated TACE.
Antibody Type	Primary Antibody
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	NP_003174
Expiration Date	12 months from date of receipt.



Western Blot Validation of TACE in Human Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: TACE (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lanes: HeLa (A, D), Jurkat (B, E), Raji (C, F) in the absence (A-C) or presence (E-F) of blocking peptide.



KO Validation in HeLa Cells. Loading: 10 µg of HeLa WT cell lysates or TACE KO cell lysates. Antibodies: TACE orb1240074 (0.25 µg/mL) and beta-actin orb1240312 (1 µg/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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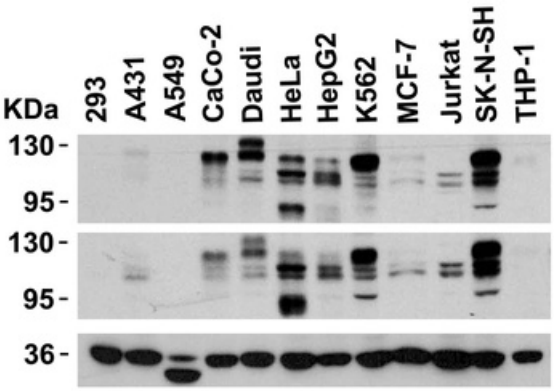
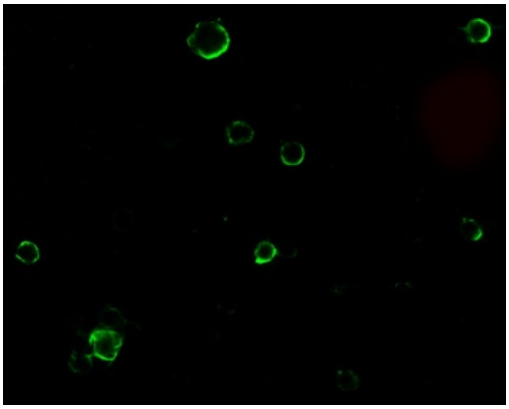
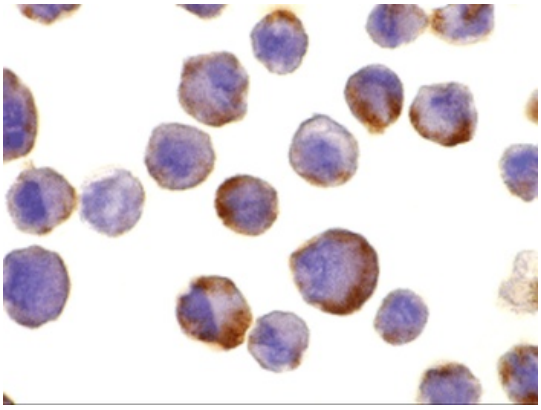


Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: TACE orb1240074 (0.5 µg/mL), TACE orb1257204 (2 µg/mL), and GAPDH (0.02 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of TACE in HeLa Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa cells labeling TACE with orb1240074 at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green).



Immunocytochemistry Validation of TACE in HeLa Cells. Immunohistochemical analysis of HeLa cells using anti-TACE antibody (orb1240074) at 10 µg/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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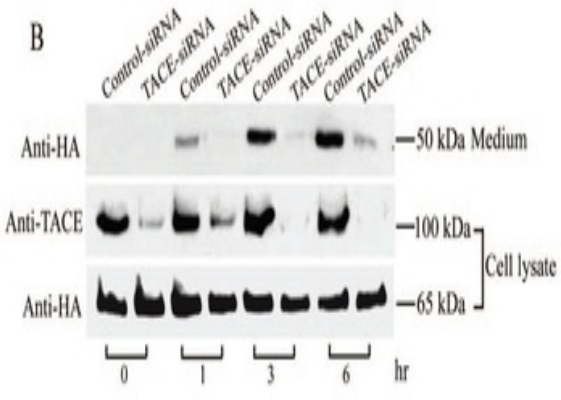
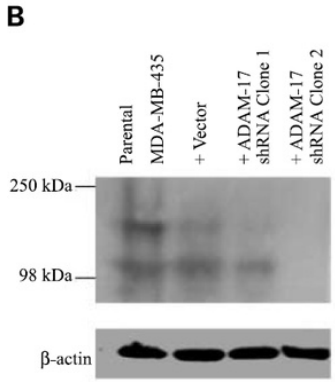
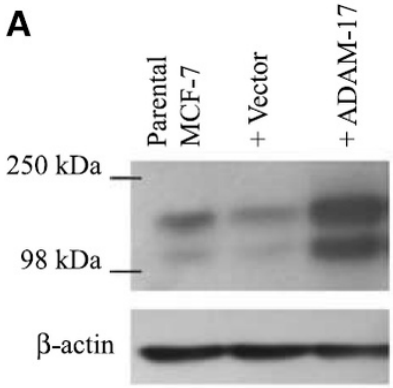


KD Validation of TACE in Monkey COS Cells. (Wang et al., 2006). COS cells stably expressing Pref-1A were transfected with control siRNA or TACE siRNA. TACE was detected in lysates by using the anti-TACE antibody (orb1240074). TACE expression levels were markedly reduced in TACE knockdown cell lysate.



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 (orb1240074).



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 (orb1240074) antibodies in MCF-7 cells. Increased ADAM-17 was detected in ADAM-17 transfected cells.

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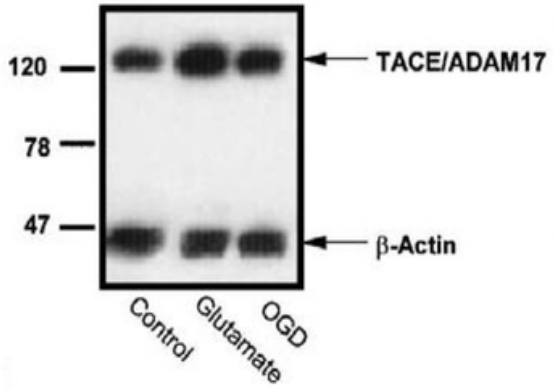
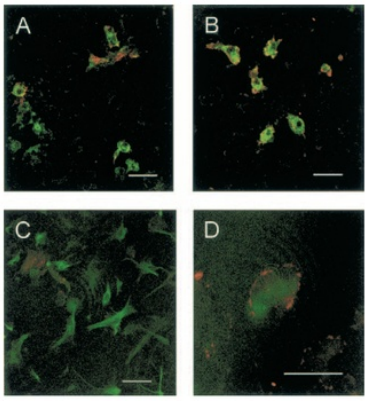
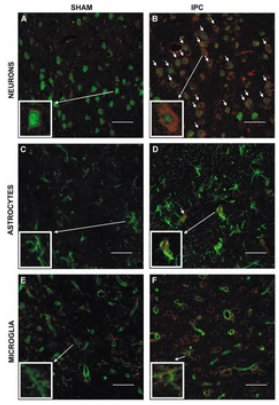


Induced Expression Validation of TACE in Rat Cortical Neurons (Hurtado et al., 2002). Effect of oxygen–glucose deprivation (OGD) or glutamate on the levels of TACE/ADAM17 in rat cortical cultures. Western blot analysis of TACE in homogenates from control, glutamate, and OGD-exposed cultures from a representative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



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.



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.

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