

# Product Datasheet

## TACE/ADAM17 Antibody - BSA Free NBP1-77044

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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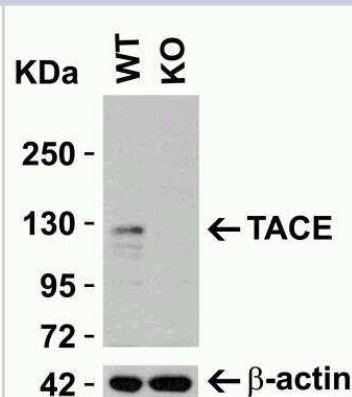
**NBP1-77044**

TACE/ADAM17 Antibody - BSA Free

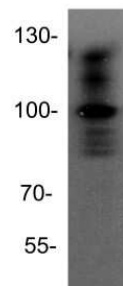
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	93 kDa
Product Description	
Host	Rabbit
Gene ID	6868
Gene Symbol	ADAM17
Species	Human, Rat
Specificity/Sensitivity	80 to 130 kDa bands can be detected, which may represent mature protein, precursor, and glycosylated TACE/ADAM17. Human TACE/ADAM17 has 2 isoforms, including isoform A (824aa, 93kD), isoform B (694aa, 78.5kD). This antibody detects only isoform A. Mouse TACE/ADAM17 has 2 isoforms, long isoform (827aa, 93.1kD) and short isoform (655aa, 73.9kD). Rat TACE/ADAM17 has only one isoform identified so far (827aa, 93kD).
Immunogen	Antibody 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. Amino Acid Sequence: ASFKLQRQNRVDSKETE
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunocytochemistry/Immunofluorescence
Recommended Dilutions	Western Blot 0.25-2 ug/mL, Simple Western, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 10 ug/ml
Application Notes	See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Mesenteric artery isolates and endothelial cell lysates

**Images**

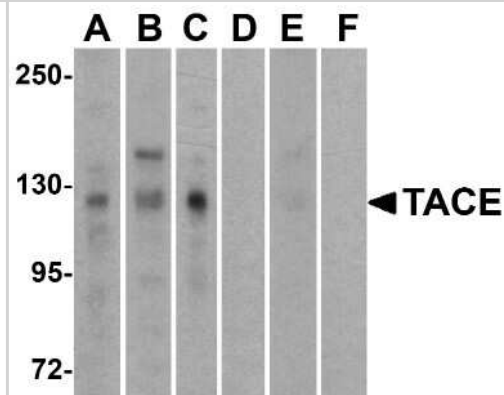
Western Blot: TACE/ADAM17 Antibody [NBP1-77044] - KO Validation in HeLa Cells. Loading: 10 ug of HeLa WT cell lysates or TACE KO cell lysates. Antibodies: TACE/ADAM17 NBP1-77044 (0.25 ug/mL) and beta-actin NBP1-76692 (1 ug/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



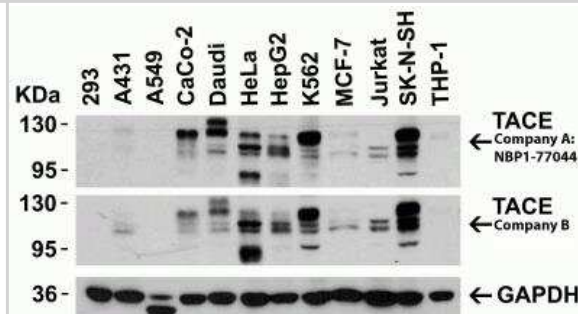
Western Blot: TACE/ADAM17 Antibody [NBP1-77044] - HeLa whole cell lysate. Image from verified customer review.



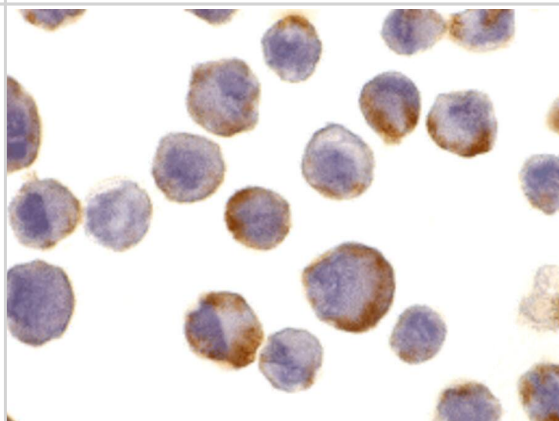
Western Blot: TACE/ADAM17 Antibody [NBP1-77044] - Analysis of TACE in HeLa (A, D), Jurkat (B, E) and Raji (C,F) cell lysate in (A-C) the absence or (D-F) the presence of blocking peptide with TACE antibody at 0.5 ug/mL.



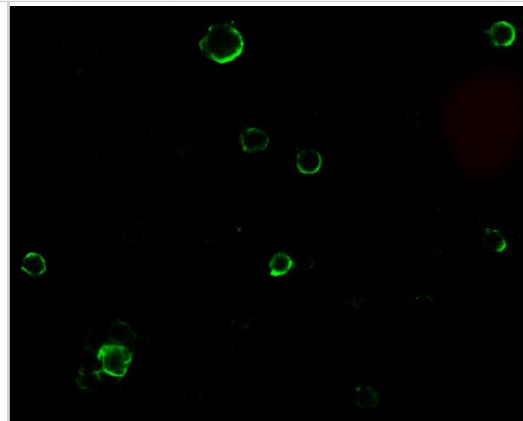
Western Blot: TACE/ADAM17 Antibody [NBP1-77044] - IAV via Protein Expression Profile in Cells Lines. Antibodies: TACE and GAPDH. Secondary: Goat anti-rabbit IgG HRP conjugate.



Immunocytochemistry/ Immunofluorescence: TACE/ADAM17 Antibody - BSA Free [NBP1-77044] - Figure 5 Immunocytochemistry Validation of TACE/ADAM17 in HeLa Cells Immunohistochemical analysis of HeLa cells using anti-TACE/ADAM17 antibody at 10 u/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 4C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunocytochemistry/ Immunofluorescence: TACE/ADAM17 Antibody - BSA Free [NBP1-77044] - Figure 4 Immunofluorescence Validation of TACE/ADAM17 in HeLa Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa cells labeling TACE/ADAM17 with at 10 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green).



## Publications

Brishti MA, Raghavan S, Lamar K et al. Diabetic Endothelial Cell Glycogen Synthase Kinase 3? Activation Induces VCAM1 Ectodomain Shedding Int J Mol Sci 2023-09-14 [PMID: 37762417]

Lemjabbar H, Li D, Gallup M et al. Tobacco smoke-induced lung cell proliferation mediated by tumor necrosis factor alpha-converting enzyme and amphiregulin. J Biol Chem. 2003-07-11 [PMID: 12711607]



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### **Products Related to NBP1-77044**

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NBP1-77044PEP	TACE/ADAM17 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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