

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TACE/ADAM17 Cytosolic Domain in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human ADAM33 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 136133
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TACE/ADAM17 Asp695-Cys824 Accession # P78536
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

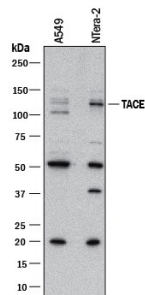
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human TACE/ADAM17 (Catalog # 930-ADB), see our available Western blot detection antibodies
Intracellular Staining by Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
CytoF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Knockout Validated	TACE/ADAM17 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in TACE/ADAM17 knockout HeLa cell line.	

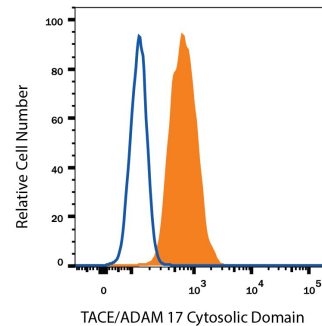
DATA

Western Blot



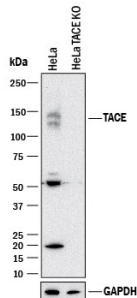
Detection of Human TACE/ADAM17 by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line and Ntera-2 human testicular embryonic carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human TACE/ADAM17 Cytosolic Domain Monoclonal Antibody (Catalog # MAB21291) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for TACE/ADAM17 at approximately 130 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Intracellular Staining by Flow Cytometry



Detection of TACE/ADAM17 in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line was stained with Mouse Anti-Human TACE/ADAM17 Cytosolic Domain Monoclonal Antibody (Catalog # MAB21291, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for [Staining Intracellular Molecules](#).

Knockout Validated



Western Blot Shows Human TACE/ADAM17 Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and TACE/ADAM17 knockout HeLa cell line (KO). PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human TACE/ADAM17 Cytosolic Domain Monoclonal Antibody (Catalog # MAB21291) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for TACE/ADAM17 at approximately 140 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from date of receipt, -20 to -70 °C as supplied.• 1 month, 2 to 8 °C under sterile conditions after reconstitution.• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TACE (also known as ADAM17) is a type I membrane zinc protease of the ADAM family that functions as a major sheddase on the cell surface.