RDsystems a biotechne brand

Human TACE/ADAM17 Ectodomain Antibody

Monoclonal Mouse IgG1 Clone # 111633 Catalog Number: MAB9301

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects the ectodomain of human TACE/ADAM17 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with the ectodomain of recombinant human ADAM8, 9, 15 and recombinant mouse ADAM10 is observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 111633		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Insect ovarian cell line <i>T. ni-</i> derived recombinant human TACE/ADAM17 Pro18-Asn671 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 dete	ermined by each laboratory for each application. General Protocols	are available in the Technical Information section on our website.	
	Recommended Concentration	Sample	
Western Blot	1 µg/mL	Recombinant Human TACE/ADAM17 Western Blot Standard (Catalog # WBC029) under non-reducing conditions only	
Flow Cytometry	0.25 µg/10 ⁶ cells	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	
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 carcinoma parental cell line but is not detectable in TACE/ADAM17 knockout HeLa cell line.		



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. 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. 		

Rev. 5/6/2022 Page 1 of 2



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BACKGROUND

TACE is a member of the ADAM family that contains A Disintegrin And Metalloprotease-like domain. Like other membrane-anchored ADAMs, TACE consists of a pro domain with a cysteine switch and furin cleavage sequence, a catalytic domain with the zinc-binding site and Met-turn expected for reprolysins, a disintegrin-like domain, a cysteine-rich domain, an EGF-like domain, a transmembrane domain, and the cytoplasmic domain. In addition to its ability to release the 17 kDa extracellular form of Tumor Necrosis Factor- α (TNF- α) from the 26 kDa membrane-anchored TNF- α , TACE also plays an essential role in shedding ectodomains from a variety of proteins such as L-Selectin, Transforming Growth Factor- α , Amyloid Protein Precursor, and Notch-1 receptor. TACE mRNA is present in virtually every tissue and TACE protein resides both on the cell surface and in the cell.

References:

- 1. Black, R.A. and J.D. Becherer (1998) in *Tumor Necrosis Factor* α-Converting Enzyme. Barrett, A.J. et al. (eds): Handbook of Proteolytic Enzymes, San Diego: Academic Press, p. 1315.
- 2. Primakoff, P. and D.G. Myles (2000) Trends in Genetics 16:83.

Rev. 5/6/2022 Page 2 of 2



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