

## DESCRIPTION

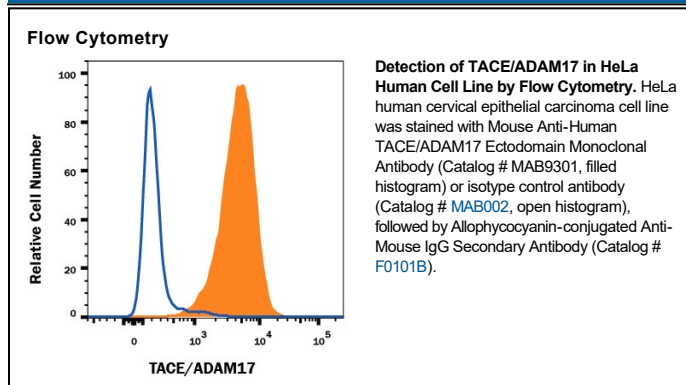
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects the ectodomain of human TACE/ADAM17 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with the ectodomain of recombinant human ADAM8, 9, 15 and recombinant mouse ADAM10 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 111633
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	Insect ovarian cell line <i>T. ni</i> -derived recombinant human TACE/ADAM17 Pro18-Asn671 Accession # P78536
<b>Formulation</b>	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
<b>Western Blot</b>	1 µg/mL	Recombinant Human TACE/ADAM17 Western Blot Standard (Catalog # <a href="#">WBC029</a> ) under non-reducing conditions only
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human TACE/ADAM17 (Catalog # <a href="#">930-ADB</a> ), see our available <a href="#">Western blot detection antibodies</a>
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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 reprotolysins, 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.