

Human TACE/ADAM17 Ectodomain Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 111633

Catalog Number: FAB9301S

100 µg

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 |
| Conjugate | Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

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 |
|-----------------------|---------------------------------|--|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | HeLa human cervical epithelial carcinoma cell line |

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

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 repolysins, 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:

- 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.
- Primakoff, P. and D.G. Myles (2000) Trends in Genetics **16**:83.

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