**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human TACE/ADAM17 Ectodomain in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) BACE, rhADAM8, rhADAM10, and recombinant mouse ADAM10 is observed.

**Source**  
Polyclonal Chicken IgY

**Purification**  
Antigen Affinity-purified from egg yolks

**Immunogen**  
Insect ovarian cell line T. ni-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 determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
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<th>Sample</th>
<th>Recommended Concentration</th>
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| Western Blot | 0.1 µg/mL  
Recombinant Human TACE/ADAM17 Western Blot Standard (Catalog # WBC029) |
| Immunohistochemistry | 5-15 µg/mL  
Immersion fixed paraffin-embedded sections of human prostate cancer tissue |

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.2 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.

**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 reprolysin, 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:**