**TACE (H-300): sc-13973**

**BACKGROUND**

Tumor necrosis factor β (TNFβ), also known as lymphotxin, is a pleiotropic cytokine. TNFα, also known as cachetin, is a cytokine that binds to the same receptors, producing an array of effects similar to those of TNFβ. TNFβ and TNFα share 30% amino acid homology and have similar biological activities. TNFβ is produced by activated lymphocytes, including CD4+ T helper cell type 1 lymphocytes, CD8+ lymphocytes and certain B lymphoblastoid cell lines. TNFα is produced by several different cell types, including lymphocytes, neutrophils and macrophages. TNFβ and TNFα can modulate many immune and inflammatory functions while having the ability to inhibit tumor growth. TACE (for TNFα converting enzyme) is a metalloproteinase that cleaves the membrane-bound TNFα precursor to release soluble TNFα.

**CHROMOSOMAL LOCATION**

Genetic locus: ADAM17 (human) mapping to 2p25.1; Adam17 (mouse) mapping to 12 A1.3.

**SOURCE**

TACE (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of TACE of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

TACE (H-300) is recommended for detection of TACE precursor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TACE (H-300) is also recommended for detection of TACE precursor in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TACE siRNA (h): sc-36604, TACE siRNA (m): sc-36605, TACE shRNA Plasmid (h): sc-36604-SH, TACE shRNA Plasmid (m): sc-36605-SH, TACE shRNA (h) Lentiviral Particles: sc-36604-V and TACE shRNA (m) Lentiviral Particles: sc-36605-V.

Molecular Weight of TACE active form: 80 kDa.

Molecular Weight of glycosylated TACE: 120 kDa.

Positive Controls: BJAB whole cell lysate; sc-2207, NAMALWA cell lysate; sc-2234 or K-562 whole cell lysate; sc-2203.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

**SELECT PRODUCT CITATIONS**


