ANTI-ADAM 17 (TACE)
Developed in Rabbit, Affinity Isolated Antibody

Product Description
Anti-ADAM 17 (TACE) is developed in rabbits using a peptide corresponding to C-terminal amino acids 807-823 of human TNF-a converting enzyme (TACE)1-3 as immunogen. This peptide differs from mouse and rat by only one amino acid.3

Anti-ADAM 17 (TACE) recognizes TACE by immunoblotting using HeLa or Jurkat cell lysates. Species reactivity is observed with human, mouse and rat.

Tumor-necrosis factor-a is a proinflammatory cytokine and contributes to a variety of inflammatory disease responses and apoptosis. TNF-a is synthesized as a 26 kDa type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17 kDa mature TNF-a. TACE (TNF-a converting enzyme), also known as cSVP, has been purified and the human and mouse TACE cDNAs has been cloned by several groups.1-3 TACE is a membrane-bound metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease). TACE has been designated ADAM 17. TACE processes other cell surface proteins, including TNF receptor, TGF-a, the L-selectin adhesion molecule, and alpha-cleavage of amyloid protein precursor (APP).4,5 Preceding cleavage by the ?-secretase-like activity, TACE cleaves the extracellular part of the Notch1 receptor and plays a prominent role in the activation of the Notch pathway.6 TACE mRNA is expressed in a variety of human and murine tissues. TACE was selected as one of the few targets in cytokine activation by the Eighth International Conference of the Inflammation Research Association.7

Reagents
Anti-ADAM 17 (TACE) is supplied as 0.5 mg/ml of affinity isolated antibody in phosphate buffered saline, containing 0.02% sodium azide.

Precautions and Disclaimer
Due to the sodium azide content, a material safety data sheet (MSDS) has been sent to the attention of the safety officer at your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability
For continuous use, store at 2-8°C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile
The recommended working concentration is 0.25 – 1 µg/ml (1:2,000 - 1:500 dilution) by immunoblotting using HeLa or Jurkat cell lysates. A wide band of 80-130 kDa can be detected. This represents mature protein, precursor and glycosylated TACE.

Note: In order to obtain best results and assay sensitivities to different techniques and preparations, we recommend determining optimal working dilutions by titration test.

References