TEM8 Antibody / Anthrax toxin receptor / ATR / ANTXR1 (RQ6934)

Catalog No.	Formulation	Size
RQ6934	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9H6X2
Applications	Western Blot : 0.5-1 ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This TEM8 antibody is available for research use only.

Western blot testing of 1) rat heart and 2) mouse heart tissue lysate with TEM8 antibody. Expected molecular weight: ~83 kDa (PA83) that is cleaved into ~63 kDa (PA63) and ~20 kDa (PA20) fragments.

Description

Anthrax toxin receptor 1 (ANTXR1 or also known as TEM8) is a protein that in humans is encoded by the ANTXR1 gene. This gene encodes a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. The encoded protein has been shown to also be a docking protein or receptor for Bacillus anthracis toxin, the causative agent of the disease, anthrax. The binding of the protective antigen (PA) component, of the tripartite anthrax toxin, to this receptor protein mediates delivery of toxin components to the cytosol of cells. Once inside the cell, the other two components of anthrax toxin, edema factor (EF) and lethal factor (LF) disrupt normal cellular processes. Three alternatively spliced variants that encode different protein isoforms have been described.

Application Notes

Optimal dilution of the TEM8 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E33-D301) was used as the immunogen for the TEM8 antibody.

Storage

After reconstitution, the TEM8 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.