ARG55408
anti-TEM8 / Anthrax Toxin Receptor 1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TEM8 / Anthrax Toxin Receptor 1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Specificity	At least three isoforms of TEM8 are known to exist; this antibody will detect all three isoforms.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TEM8 / Anthrax Toxin Receptor 1
Species	Human
Immunogen	Synthetic peptide (13 aa) within aa. 220-270 of Human TEM8.
Conjugation	Un-conjugated
Alternate Names	Tumor endothelial marker 8; Anthrax toxin receptor 1; ATR; TEM8; GAPO

Application Instructions

Application table

Application	Dilution
IHC-P	2 µg/ml
WB	2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: HepG2 Cell Lysate

Properties

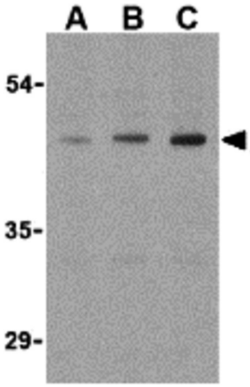
Form	Liquid
Purification	Purified by affinity chromatography.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

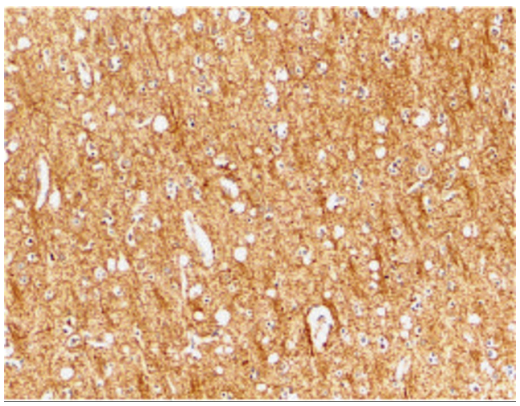
Database links	GeneID: 84168 Human Swiss-port # Q9H6X2 Human
Gene Symbol	ANTXR1
Gene Full Name	anthrax toxin receptor 1
Background	This gene encodes a type I transmembrane protein and is a tumor-specific endothelial marker that has been implicated in colorectal cancer. The encoded protein has been shown 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. [provided by RefSeq, Oct 2008]
Function	Plays a role in cell attachment and migration. Interacts with extracellular matrix proteins and with the actin cytoskeleton. Mediates adhesion of cells to type 1 collagen and gelatin, reorganization of the actin cytoskeleton and promotes cell spreading. Plays a role in the angiogenic response of cultured umbilical vein endothelial cells. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Controls and Markers antibody; Microbiology and Infectious Disease antibody
Calculated Mw	Isoform 1: 63 kDa Isoform 2: 41 kDa

Images



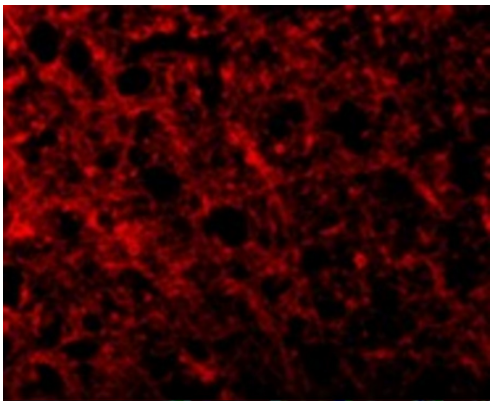
ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody WB image

Western blot: HepG2 cell lysates stained with ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody at (A) 0.5, (B) 1, and (C) 2 µg/ml dilution.



ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody IHC image

Immunohistochemistry: Human brain tissue stained with ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody at 2 µg/ml dilution.



ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody IHC image

Immunohistochemistry: Human Brain tissue stained with ARG55408 anti-TEM8 / Anthrax Toxin Receptor 1 antibody at 10 µg/ml dilution.