ANTR1 Polyclonal Antibody

Catalog No	YP-Ab-07067
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	ANTXR1 ATR TEM8
Protein Name	Anthrax toxin receptor 1 (Tumor endothelial marker 8)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	ANTR1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	62kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Cell projection, lamellipodium membrane ; Single-pass type I membrane protein . Cell projection, filopodium membrane ; Single-pass type I membrane protein . At the membrane of lamellipodia and at the tip of actin-enriched filopodia (PubMed:16762926). Colocalizes with actin at the base of lamellipodia (PubMed:16762926). .
Tissue Specificity	Detected in umbilical vein endothelial cells (at protein level). Highly expressed in tumor endothelial cells.
Function	alternative products:Experimental confirmation may be lacking for some isoforms,domain:Binding to PA seems to be effected through the VWA domain.,function:Cellular role is not yet known.,similarity:Belongs to the ATR family.,similarity:Contains 1 VWFA domain.,subunit:Binds to the protective antigen (PA) of Bacillus anthracis. Binding does not occur in the presence of calcium.,tissue specificity:Highly expressed in tumor endothelial cells but not in normal endothelial cells.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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