

ANTR2 Rabbit pAb

CatalogNo: YN2043

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 53kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from part region of human protein

Specificity

ANTR2 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name

ANTXR2 CMG2

Protein Name	Anthrax toxin receptor 2 (Capillary morphogenesis gene 2 protein) (CMG-2)		
	Organism	Gene ID	UniProt ID
	Human	118429 ;	P58335 ;
	Mouse		Q6DFX2 ;
Cellular Localization	[Isoform 1]: Cell membrane ; Single-pass type I membrane protein . Expressed at the cell surface. .; [Isoform 2]: Endoplasmic reticulum membrane ; Single-pass type I membrane protein . Expressed predominantly within the endoplasmic reticulum and not at the plasma membrane. .; [Isoform 3]: Secreted .		
Tissue specificity	Expressed in prostate, thymus, ovary, testis, pancreas, colon, heart, kidney, lung, liver, peripheral blood leukocytes, placenta, skeletal muscle, small intestine and spleen.		
Function	<p>Disease:Defects in ANTXR2 are the cause of infantile systemic hyalinosis (ISH) [MIM:236490]. This autosomal recessive syndrome is similar to JHF, but has an earlier onset and a more severe course. Symptoms appear at birth or within the first months of life, with painful, swollen joint contractures, osteopenia, osteoporosis and livid red hyperpigmentation over bony prominences. Patients develop multiple subcutaneous skin tumors and gingival hypertrophy. Hyaline deposits in multiple organs, recurrent infections and intractable diarrhea often lead to death within the first 2 years of life. Surviving children may suffer from severely reduced mobility due to joint contractures.,Disease:Defects in ANTXR2 are the cause of juvenile hyaline fibromatosis (JHF) [MIM:228600]. JHF is an autosomal recessive syndrome that is similar to ISH but takes a milder course. It is characterized by hyaline deposition in the dermis, multiple subcutaneous skin tumors and gingival hypertrophy, followed by progressive joint contractions, osteopenia and osteoporosis that may lead to a severe limitation of mobility.,Domain:Binding to PA seems to be effected through the VWA domain.,Function:Necessary for cellular interactions with laminin and the extracellular matrix.,miscellaneous:Upon binding of the protective antigen (PA) of Bacillus anthracis the complex moves to glycosphingolipid-rich lipid rafts, where it is internalized via a clathrin-dependent pathway.,similarity:Belongs to the ATR family.,similarity:Contains 1 VWFA domain.,subcellular location:Expressed at the cell surface.,subcellular location:Expressed predominantly within the endoplasmic reticulum and not at the plasma membrane.,subunit:Binds laminin, and possibly also collagen type IV. Binds to the protective antigen (PA) of Bacillus anthracis in a divalent cation-dependent manner, with the following preference: calcium > manganese > magnesium > zinc. Binding of PA leads to heptamerization of the receptor-PA complex.,tissue specificity:Expressed in prostate, thymus, ovary, testis, pancreas, colon, heart, kidney, lung, liver, peripheral blood leukocytes, placenta, skeletal muscle, small intestine and spleen.,</p>		

| Validation Data

| Contact information

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Please scan the QR code
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ANTR2 Rabbit pAb

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