

**ANTXR2 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54361****Specification**

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**ANTXR2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">P58335</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ANTXR2
Epitope Specificity	101-200/489
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted; Cell membrane. Expressed at the cell surface and Endoplasmic reticulum membrane. Expressed predominantly within the endoplasmic reticulum and not at the plasma membrane.
SIMILARITY	Belongs to the ATR family. Contains 1 VWFA domain.
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.
DISEASE	Defects in ANTXR2 are the cause of infantile systemic hyalinosis (ISH). 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. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

#### Important Note

#### Background Descriptions

This gene encodes a receptor for anthrax toxin. The protein binds to collagen IV and laminin, suggesting that it may be involved in extracellular matrix adhesion. Mutations in this gene cause juvenile hyaline fibromatosis and infantile systemic hyalinosis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009].

#### ANTXR2 Polyclonal Antibody - Additional Information

**Gene ID** 118429

#### Other Names

Anthrax toxin receptor 2, Capillary morphogenesis gene 2 protein, CMG-2, ANTXR2, CMG2

#### Target/Specificity

Expressed in prostate, thymus, ovary, testis, pancreas, colon, heart, kidney, lung, liver, peripheral blood leukocytes, placenta, skeletal muscle, small intestine and spleen.

#### Dilution

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

#### Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

#### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

#### ANTXR2 Polyclonal Antibody - Protein Information

**Name** ANTXR2 ([HGNC:21732](#))

#### Function

Necessary for cellular interactions with laminin and the extracellular matrix.

#### Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Note=Expressed at the cell surface [Isoform 3]: Secreted.

#### Tissue Location

Expressed in prostate, thymus, ovary, testis, pancreas, colon, heart, kidney, lung, liver, peripheral blood leukocytes, placenta, skeletal muscle, small intestine and spleen

**ANTXR2 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ANTXR2 Polyclonal Antibody - Images**