

For Research Use Only

# ANTXR2 Polyclonal antibody

Catalog Number: 16723-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

16723-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10162

### GenBank Accession Number:

BC107876

### GeneID (NCBI):

118429

### UNIPROT ID:

P58335

### Full Name:

anthrax toxin receptor 2

### Calculated MW:

54 kDa

### Observed MW:

55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IP, IHC, CoIP

### Species Specificity:

human

### Cited Species:

Camelus bactrianus, human

### Positive Controls:

WB : HEK-293 cells, PC-3 cells

IP : HEK-293 cells,

IHC : human ovary tissue, human kidney tissue, human placenta tissue, human testis tissue, human lung tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ANTXR2 (anthrax toxin receptor 2), also known as CMG2 (capillary morphogenesis gene 2 protein) is a transmembrane protein that is induced during capillary morphogenesis. It contains a vWA domain that shows strong binding to laminin and collagen IV, suggesting that this protein plays a role in basement membrane matrix assembly and endothelial cell morphogenesis (PMID: 11683410; 14508707). Like its paralog TEM8 (ANTXR1), ANTXR2 also functions as a receptor for anthrax toxin. Mutations in ANTXR2 result in the allelic disorders juvenile hyaline fibromatosis and infantile systemic hyalinosis (PMID: 14508707; 12973667; 22383261).

## Notable Publications

Author	Pubmed ID	Journal	Application
Muhammad U Anwar	36174556	Dev Cell	WB
Liukun Meng	33749907	FASEB J	IHC
Oksana A Sergeeva	30610172	Proc Natl Acad Sci U S A	WB,IP

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

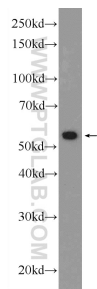
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

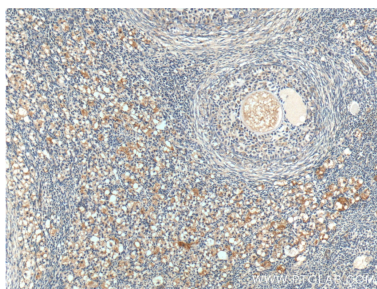
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

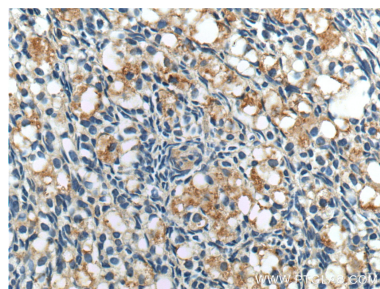
Selected Validation Data



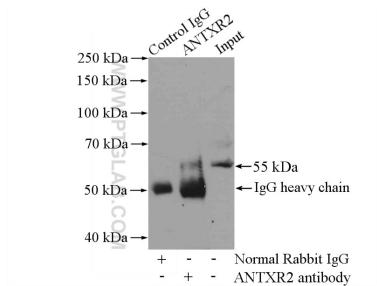
HEK-293 cells were subjected to SDS PAGE followed by western blot with 16723-1-AP (ANTXR2 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tissue slide using 16723-1-AP (ANTXR2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tissue slide using 16723-1-AP (ANTXR2 Antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-ANTXR2 (IP:16723-1-AP, 4ug; Detection:16723-1-AP 1:500) with HEK-293 cells lysate 2800ug.