

For Research Use Only

Mouse Angiopoietin-2 Polyclonal antibody, PBS Only

Catalog Number: 31499-1-PBS



Basic Information

Catalog Number:

31499-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0666

GenBank Accession Number:

NM_007426.4

GeneID (NCBI):

11601

UNIPROT ID:

O35608

Full Name:

angiopoietin 2

Calculated MW:

56KD

Observed MW:

68 kDa

Purification Method:

Antigen affinity Purification

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

mouse, rat

Background Information

Angiopoietin-2 (ANGPT2, ANG-2) is as a regulator of vessel enlargement, and ANGPT2 inhibition prevented pathological vessel enlargement (PMID: 34758631). ANGPT2 destabilizes vessels and promotes angiogenesis through antagonism of ANGPT1 (PMID: 34758631). Ang2 was initially identified by homology with Ang1 and is expressed predominantly by endothelial cells, where it is stored in intracellular secretory granules called Weibel-Palade bodies (WPB) and promptly released after endothelium activation. Like Ang1, Ang2 binds to Tie2 receptor, but with different pathophysiological effects. While Ang1 fosters endothelial stabilization, Ang2 can antagonize Ang1, blocking Tie2 activation and leading to vessel destabilization (PMID: 31756341).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

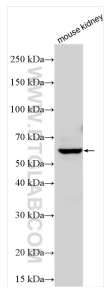
T: 4006900926

E: Proteintech-CN@ptglab.com

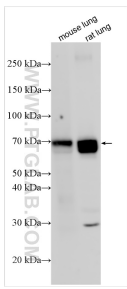
W: ptgcn.com

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

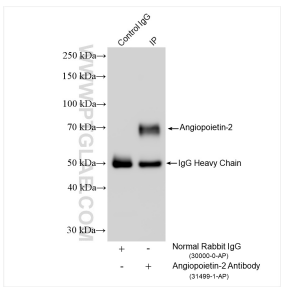
Selected Validation Data



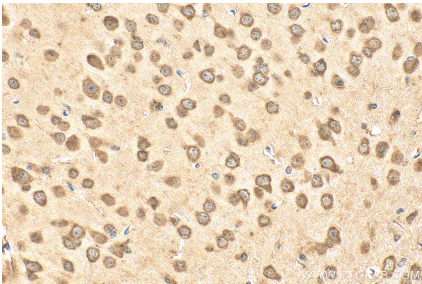
Various lysates were subjected to SDS PAGE followed by western blot with 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



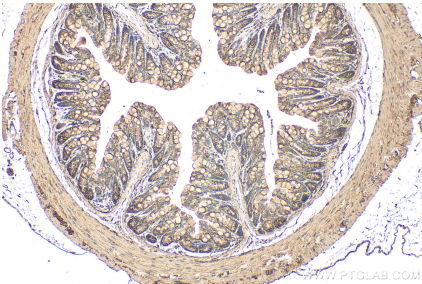
Various lysates were subjected to SDS PAGE followed by western blot with 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



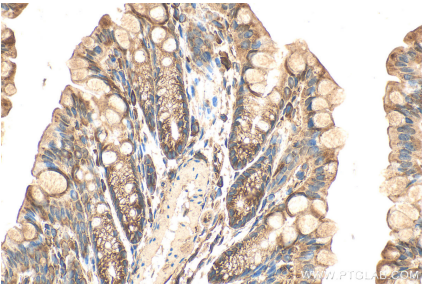
IP result of anti-Angiopoietin-2 (IP:31499-1-AP, 4ug; Detection:31499-1-AP 1:3000) with rat lung tissue lysate 1200 ug. This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



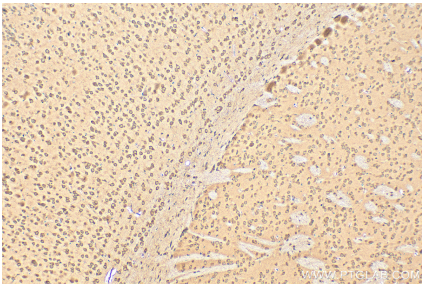
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 31499-1-AP (Angiopoietin-2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 31499-1-PBS in a different storage buffer formulation.