For Research Use Only

Mouse Angiopoietin-2 Recombinant antibody, PBS Only

Catalog Number:83816-1-PBS



Basic Information

Catalog Number: 83816-1-PBS Concentration: 1 mg/ml

Source: Rabbit Isotype: IgG GenBank Accession Number: NM_007426.4

GeneID (NCBI): 11601 UNIPROT ID: 035608 Full Name: angiopoietin 2 Calculated MW:

Observed MW: 68kDa

56KD

Purification Method: Protein A purfication

CloneNo.: 240760D5

Applications

Tested Applications: WB, IHC, IP, ELISA Species Specificity: mouse

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).

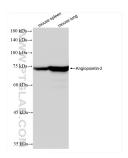
Storage

Storage: Store at -80°C.

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

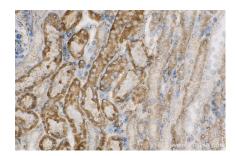
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83816-1-RR (Angiopoietin-2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer

Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 83816-1-RR (Angiopoietin-2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer formulation



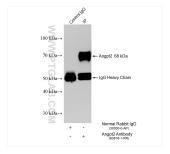
Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 83816-1-RR (Angiopoietin-2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer formulation.



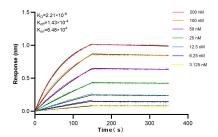
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83816-1-RR (Angiopoietin-2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 83816-1-RR (Angiopoietin-2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer formulation.



IP result of anti-Angiopoietin-2 (IP:83816-1-RR, 4ug; Detection:83816-1-RR 1:1500) with mouse lung tissue lysate 1200 ug. This data was developed using the same antibody clone with 83816-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83816-1-RR against Mouse Angiopoietin-2 were performed. The affinity constant is below 1 pM.