Product Datasheet

GPIHBP1 Antibody
NB110-41537

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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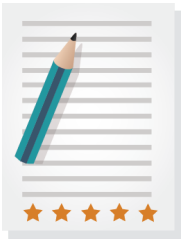
Updated 1/1/2022 v.20.1



NB110-41537

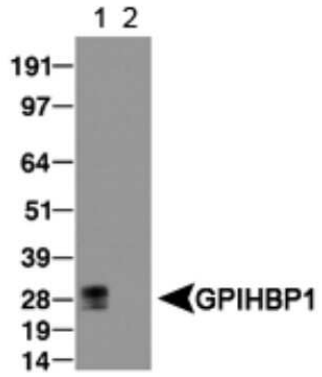
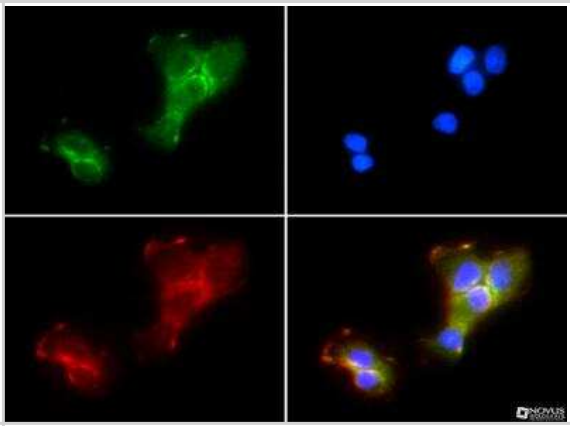
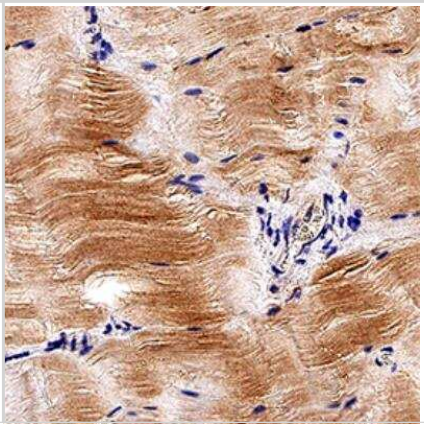
GPIHBP1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.6 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine and 0.15M NaCl

Product Description	
Host	Rabbit
Gene ID	338328
Gene Symbol	GPIHBP1
Species	Human, Mouse, Rat, Bovine
Reactivity Notes	Rat and Bovine reactivity reported in scientific literature (PMID: 24735886). Human reactivity reported in scientific literature (PMID: 28099936).
Immunogen	A synthetic peptide corresponding to an internal region [within residues 100-170] of mouse GPIHBP1. [Swiss-Prot# Q9D1N2]

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Chromatin Immunoprecipitation, Immunohistochemistry 1:25 - 1:100, Immunocytochemistry/ Immunofluorescence 1:50-1:100, Immunohistochemistry-Paraffin 1:25 - 1:100, Flow (Cell Surface)
Application Notes	Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID: 24735886). Use in chromatin immunoprecipitation reported in scientific literature (PMID: 28099936). Use in FLOW cell surface reported in scientific literature (PMID: 24735886).

Images

Western Blot: GPIHBP1 Antibody [NB110-41537] - (1) Detection of GPIHBP1in transfected lysate and (2) empty vector lysate was used as a negative control.	
Immunocytochemistry/Immunofluorescence: GPIHBP1 Antibody [NB110-41537] - GPIHBP1 antibody was tested in A431 cells with FITC (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).	
Immunohistochemistry-Paraffin: GPIHBP1 Antibody [NB110-41537] - Analysis of FFPE mouse skeletal muscle using GPIHBP1 antibody at 1:50 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Staining was observed on the luminal surface of capillary endothelium . Staining was performed by Histowiz.	

Publications

Kim GT, Hahn KW, Sohn KY et al. PLAG enhances macrophage mobility for efferocytosis of apoptotic neutrophils via membrane redistribution of P2Y2 FEBS J. 2019-11-12 [PMID: 31714686] (ICC/IF, Human)

Chan CY, Huang SY, Sheu JJ et al. Transcription factor HBP1 is a direct anti-cancer target of transcription factor FOXO1 in invasive oral cancer Oncotarget 2017-01-14 [PMID: 28099936] (Chemotaxis, Human)

Chiu AP, Wang F, Lal N et al. Endothelial cells respond to hyperglycemia by increasing the LPL transporter GPIHBP1. Am. J. Physiol. Endocrinol. Metab. 2014-04-15 [PMID: 24735886] (IHC-P, ICC/IF, WB, Rat, Bovine)

Beigneux AP, Gin P, Davies BSJ et al. Highly Conserved Cysteines within the Ly6 Domain of GPIHBP1 Are Crucial for the Binding of Lipoprotein Lipase. J Biol Chem;284(44):30240-30247. 2009-01-01 [PMID: 19726683]

Davies BSJ, Waki H, Beigneux AP et al. The expression of GPIHBP1, an endothelial cell binding site for lipoprotein lipase and chylomicrons, is induced by peroxisome proliferator-activated receptor-gamma. Mol Endocrinol;22 (11):2496-504. 2008-11-01 [PMID: 18787041] (ICC/IF, Mouse)

Beigneux AP, Gin P, Davies BSJ et al. Glycosylation of Asn-76 in mouse GPIHBP1 is critical for its appearance on the cell surface and the binding of chylomicrons and lipoprotein lipase. J Lipid Res. 49(6):1312-21. 2008-06-01 [PMID: 18340083] (WB, ICC/IF, Mouse)

Gin P, Yin L, Davies BSJ et al. The acidic domain of GPIHBP1 is important for the binding of lipoprotein lipase and chylomicrons. J Biol Chem;283(43):29554-62. 2008-10-24 [PMID: 18713736]

Procedures

Western Blot protocol for GPIHBP1 Antibody (NB110-41537)
GPIHBP1 Antibody:
Western Blot Protocol
1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, overnight at 4 degrees Celcius.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Gpihbp1 primary antibody (NB110-41537) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Limitations
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