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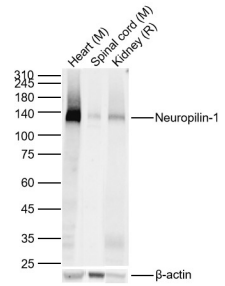
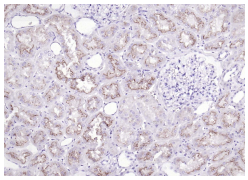
Neuropilin-1 Recombinant Rabbit mAb

Catalog Number:	bsm-52479R
Target Protein:	Neuropilin-1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Recombinant
Clone No.:	49H9
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:50-200), IF (1:100-500), Flow-Cyt (1:50), ICC/IF (1:50)
Reactivity:	Human, Mouse, Rat
Predicted MW:	103 kDa
Subcellular Locations:	Secreted ,Cell membrane
Entrez Gene:	8829
Swiss Prot:	O14786
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contains a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. Several alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. [provided by RefSeq, Oct 2011]

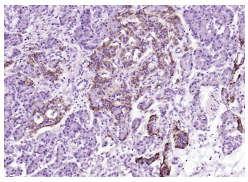
VALIDATION IMAGES



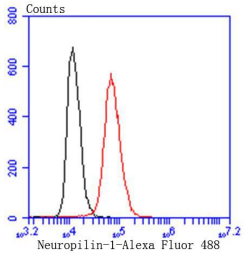
Sample: Lane 1: Mouse Heart Lysates Lane 2: Mouse Spinal cord Lysates Lane 3: Rat Kidney Lysates Primary: Anti-Neuropilin-1 (bsm-52479R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 103kDa Observed band size: 130kDa



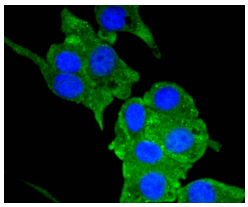
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neuropilin-1) Monoclonal Antibody, Unconjugated (bsm-52479R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



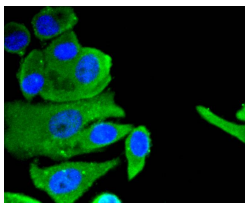
Paraformaldehyde-fixed, paraffin embedded (human pancreatic cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neuropilin-1) Monoclonal Antibody, Unconjugated (bsm-52479R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:Hela. Primary Antibody (green line): Rabbit Anti- antibody (bsm-52479R) Dilution: 1:50; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1:1000. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



SHG-44 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (Neuropilin-1) monoclonal Antibody, Unconjugated (bsm-52479R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (Neuropilin-1) monoclonal Antibody, Unconjugated (bsm-52479R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.858] E Wen. et al. Tuftsin ameliorates splenic inflammatory injury by promoting neuropilin-1 in severe acute pancreatitis. BIOCHEM PHARMACOL. Biochem Pharmacol. 2022 May;199:115030 IHC,IF ; Mouse . 35381211