

For Research Use Only

# Neuropilin 1 Recombinant antibody

Catalog Number: 84429-5-RR



## Basic Information

Catalog Number:	84429-5-RR	GenBank Accession Number:	BC007533	Purification Method:	Protein A purification
Size:	1000 µg/ml	GeneID (NCBI):	8829	CloneNo.:	241812G11
Source:	Rabbit	UNIPROT ID:	O14786	Recommended Dilutions:	WB 1:500-1:2000
Isotype:	IgG	Full Name:	neuropilin 1		IHC 1:250-1:1000
		Observed MW:	130-140 kDa		IF/ICC 1:125-1:500

## Applications

Tested Applications:  
WB, IHC, IF/ICC, ELISA

Species Specificity:  
human, mouse, rat

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

Positive Controls:

WB : mouse heart tissue, rat heart tissue, mouse brain tissue, rat brain tissue

IHC : human placenta tissue,

IF/ICC : PC-3 cells,

## Background Information

Neuropilin-1 (NRP1) is a 130-140 kDa transmembrane glycoprotein expressed by endothelial, dendritic, and regulatory T cells, as well as several other normal cell types and malignant tumor cells. NRP1 was first identified as a semaphorin (SEMA) receptor, involved in axonal guidance in embryonic development. NRP1 was also shown to act as a receptor for vascular endothelial growth factor (VEGF) and a promoter of angiogenesis through its interaction with VEGF-A165 (and other VEGFs) and the receptor tyrosine kinase (RTK) VEGF-R2. NRP1 plays versatile roles in angiogenesis, axon guidance, cell survival, migration, and invasion.

## 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

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

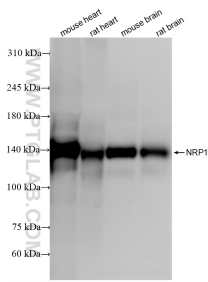
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

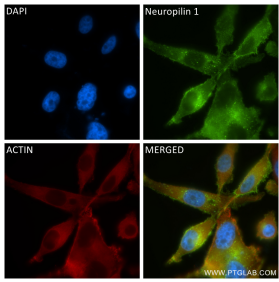
W: [ptgcn.com](http://ptgcn.com)

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

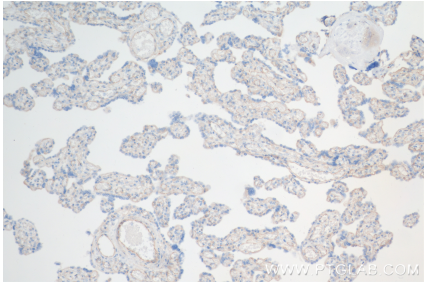
# Selected Validation Data



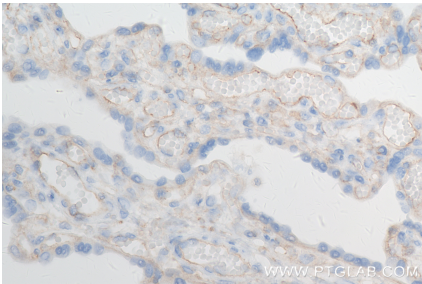
Various lysates were subjected to SDS PAGE followed by western blot with 84429-5-RR (NRP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using Neuropilin 1 antibody (84429-5-RR, Clone: 241812G11 ) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84429-5-RR (Neuropilin 1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84429-5-RR (Neuropilin 1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).