

For Research Use Only

# Neuropilin 1 Monoclonal antibody



Catalog Number: 60067-1-Ig **9 Publications**

## Basic Information

<b>Catalog Number:</b> 60067-1-Ig	<b>GenBank Accession Number:</b> BC007737	<b>Purification Method:</b> Caprylic acid/ammonium sulfate precipitation
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8829	<b>CloneNo.:</b> 2H3F6
<b>Source:</b> Mouse	<b>Full Name:</b> neuropilin 1	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 103 kDa	
<b>Immunogen Catalog Number:</b> AG0931	<b>Observed MW:</b> 130 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, WB	<b>WB :</b> human placenta tissue, human plasma, fetal human brain tissue, pig brain tissue
<b>Species Specificity:</b> human, pig	<b>IF :</b> SH-SY5Y cells, human embryonic stem cells
<b>Cited Species:</b> human, mouse, Xenopus	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chunxi Liu	25204970	Mol Cell Biochem	WB
Max Koppers	31746735	Elife	IF
S Saad	26602825	Acta Biomater	IHC, IF

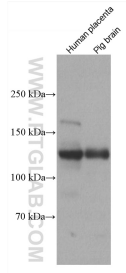
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

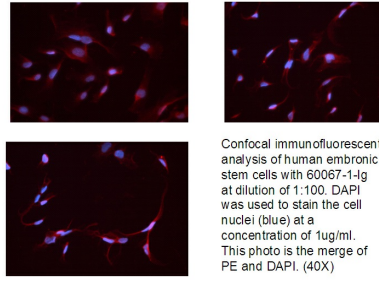
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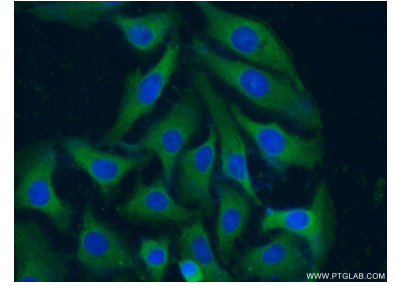
## Selected Validation Data



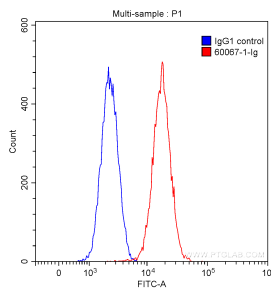
Various lysates were subjected to SDS PAGE followed by western blot with 60067-1-Ig (Neuropilin 1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Confocal immunofluorescent analysis of human embryonic stem cells with 60067-1-Ig at dilution of 1:100. DAPI was used to stain the cell nuclei (blue) at a concentration of 1ug/ml. This photo is the merge of PE and DAPI. (40X)



Immunofluorescent analysis of (-20 Ethanol) fixed SH-SY5Y cells using 60067-1-Ig (Neuropilin 1 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> SH-SY5Y cells were stained with 0.20 ug/test Anti-Human Neuropilin 1 (60067-1-Ig, Clone:2H3F6) (red) or 0.20 ug control antibody (blue) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Fixed with 90% MeOH.