Datasheet for ABIN7043379

anti-Neuropilin 1 antibody (Extracellular) (FITC)

2 Images

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Overview

Quantity:	50 µL
Target:	Neuropilin 1 (NRP1)
Binding Specificity:	AA 502-514, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Neuropilin 1 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Neuropilin-1 (NRP1) (extracellular) conjugated to the fluorescent dye FITC.
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)GGKHRENKVFMRK, corresponding to amino acid residues 502-514 of human neuropilin-1
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Rat,mouse - identical
Characteristics:	Anti-Neuropilin-1 (NRP1) (extracellular) Antibody (ABIN7043378, ABIN7044702 and

Product Details

	ABIN7044703) is a highly specific antibody directed against an extracellular epitope of the human protein. The antibody can be used in western blot, immunocytochemistry, and live cell flow cytometry applications. It has been designed to recognize NRP1 from human, mouse, and rat samples. \nAnti-Neuropilin-1 (NRP1)-FITC Antibody (ABIN7043378, ABIN7044702 and ABIN7044703)-F) is directly conjugated to fluorescein isothiocyanate (FITC) fluorophore. This conjugated antibody has been developed to be used in immunofluorescent applications such as direct flow cytometry and live cell imaging.
Purification:	Affinity purified on immobilized antigen.

Target Details

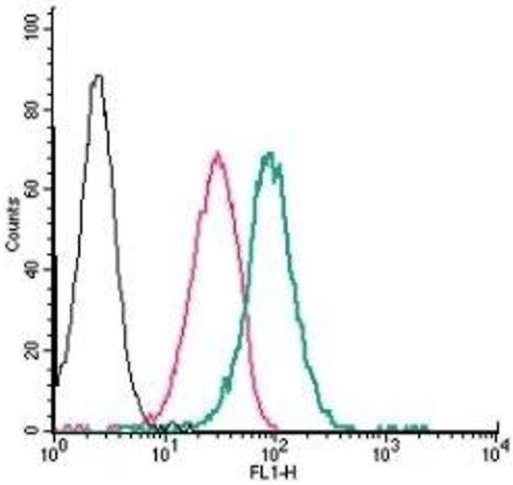
Target:	Neuropilin 1 (NRP1)
Alternative Name:	NRP1 (NRP1 Products)
Background:	Vascular endothelial cell growth factor 165 receptor, VEGF165R, CD304,Neuropilins (NRPs) are co-receptors for class 3 semaphorins, polypeptides with key roles in axonal guidance, and for members of the VEGF (vascular endothelial growth factor) family of angiogenic cytokines.Neuropilin 1 (NRP1) is a transmembrane glycoprotein and comprises a large extracellular region containing multiple domains, a single transmembrane domain and a small cytoplasmic domain, also with a number of protein interacting domains.Class 3 semaphorins bind NRP1 (and NRP2) with different, and partially overlapping, specificities and affinities. Plexin A1 and Plexin A2 are the major signaling receptors for class 3 semaphorins, and complex with NRPs and semaphorins to form a holoreceptor essential for mediating effects of semaphorins on growth-cone collapse and axonal guidance in neurogenesis. The major VEGF-A signaling receptor, VEGF receptor 2, forms complexes with NRP1 and is important for optimal VEGFR2 signaling and function in endothelial cells.Targeted disruption of the NRP1 gene has demonstrated an essential dual role of these molecules in neurogenesis and cardiovascular development. NRP1-null mice die with a spectrum of cardiovascular and neuronal defects1. Alternative names: Vascular endothelial cell growth factor 165 receptor, VEGF165R, CD304
Gene ID:	8829
NCBI Accession:	NM_001024628
UniProt:	O14786
Pathways:	Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling, VEGFR1 Specific Signals

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582044) Blocking Peptide: (ABIN7236114)
Restrictions:	For Research Use only

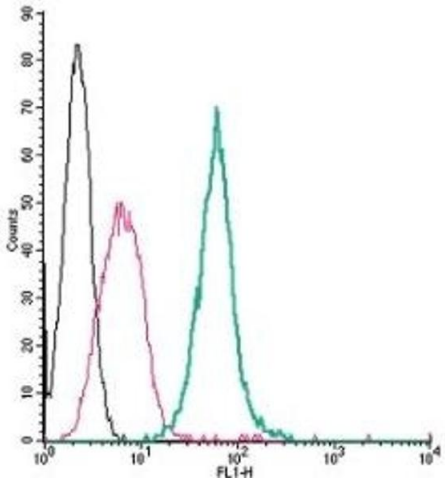
Handling

Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Flow Cytometry

Image 1. Cell surface detection of Neuropilin-1 by direct flow cytometry in live intact human THP-1 monocytic leukemia cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-FITC.(green line) Cells + Anti- Neuropilin-1 (NRP1) (extracellular)-FITC Antibody (ABIN7043379, ABIN7045604, ABIN7045605, ABIN7045606 and ABIN7045607), (2.5 µg).



Flow Cytometry

Image 2. Cell surface detection of Neuropilin-1 by direct flow cytometry in live intact mouse J774 macrophage cells: (black line) Cells.(red line) Cells + Rabbit IgG isotype control-FITC.(green line) Cells + Anti-Neuropilin-1 (NRP1) (extracellular)-FITC Antibody (ABIN7043379, ABIN7045604, ABIN7045605, ABIN7045606 and ABIN7045607), (2.5 µg).