Datasheet for ABIN7601920

anti-Neuropilin 1 antibody (AA 504-827)

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Overview

Quantity:	100 µg
Target:	Neuropilin 1 (NRP1)
Binding Specificity:	AA 504-827
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Neuropilin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-Neuropilin 1 Antibody Picoband® (monoclonal, 4G3F7)
Immunogen:	E.coli-derived human Neuropilin 1 recombinant protein (Position: K504-T827). Human Neuropilin 1 shares 95% and 94% amino acid (aa) sequences identity with mouse and rat Neuropilin 1, respectively.
Clone:	4G3F7
Isotype:	IgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Neuropilin 1 Antibody Picoband® (monoclonal, 4G3F7) (ABIN7601920). Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong

Product Details

	signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Neuropilin 1 (NRP1)
Alternative Name:	NRP1 (NRP1 Products)
Background:	Synonyms: Replication protein A 70 kDa DNA-binding subunit, RP-A p70, Replication factor A protein 1, RF-A protein 1, Single-stranded DNA-binding protein, Replication protein A 70 kDa DNA-binding subunit, N-terminally processed, RPA1, REPA1, RPA70 Tissue Specificity: Expressed in lung fibroblasts (at protein level). Expressed in monocytes. Highly expressed in liver, also found in kidney and brain. 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 contain 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.
Molecular Weight:	120 kDa
Gene ID:	8829
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:	Western blot, 0.25-0.5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human 1. Gagnon, M. L., Bielenberg, D. R., Gechtman, Z., Miao, H.-Q., Takashima, S., Soker, S.,

Application Details

	Klagsbrun, M. Identification of a natural soluble neuropilin-1 that binds vascular endothelial growth factor: in vivo expression and antitumor activity. Proc. Nat. Acad. Sci. 97: 2573-2578, 2000. 2. Gu, C., Rodriguez, E. R., Riemert, D. V., Shu, T., Fritzsch, B., Richards, L. J., Kolodkin, A. L., Ginty, D. D. Neuropilin-1 conveys semaphorin and VEGF signaling during neural and cardiovascular development. Dev. Cell 5: 45-57, 2003.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.