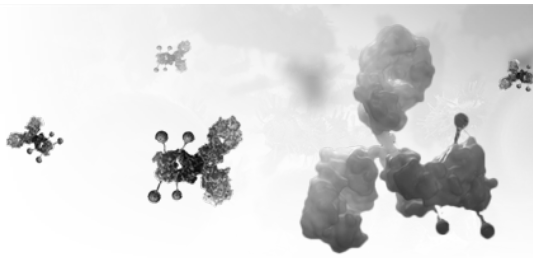

Mouse Anti-Human Neuropilin-2 monoclonal antibody, clone NN22 (CABT-ZB436)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	It reacts with Human Neuropilin-2
Target	NRP2
Immunogen	Recombinant Human NRP2/Neuropilin-2 Protein
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	NN22
Purification	Protein A purified
Conjugate	Unconjugated
Applications	ELISA(cap) We recommend the following for sandwich ELISA (Capture - Detection): CABT-ZB436 - CABT-ZB836 This antibody will detect Neuropilin-2 in antibody pair set. [ABPR-ZB010]
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human NRP2 / Neuropilin-2. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	Purified, Liquid
Concentration	Lot specific

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Size	50 µL, 100 µL, 200 µL, 1 mL
Buffer	PBS
Preservative	None
Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Neuropilin-2 (NRP-2) which is related to NRP-1, is a type I? transmembrane glycoprotein and has the structure characteristic with five main extracellular domains: two complement binding (CUB) domains, two coagulation factor V/VIII homology domains, and a MAM (meprin, tyrosine phosphatase domain) region. NRP-2 is a receptor capable of binding two disparate ligands, classⅢ semaphorins (SEMA) and vascular endothelial growth factors (VEGF), and thus regulates two diverse systems by activating cellular signaling pathways via interacting with other cell surface receptors such as VEGF receptors and plexins. NRP-2 is well known for its role in facilitating axonal guidance during the development of the neuronal system, and additionally, it is also expressed in vascular endothelial cells and lymphatic endothelium where it affects proliferation, migration, angiogenesis, as well as the formation of small lymphatic vessels and capillaries. A recent study has identified NRP-2 as a polysialylation protein expressed in human dendritic cells and modulates DC-T Cell Interactions. Nearly all tumor cells express neuropilins and NRP-2 is predominantly expressed in neuronal tumors and melanomas. Furthermore, it is suggested that as the specific ligand for NRP-2, SEMA 3F inhibits tumor angiogenesis, and metastasis.
Keywords	NRP2; neuropilin 2; neuropilin-2; VEGF165R2

GENE INFORMATION

Synonyms	NRP2; neuropilin 2; neuropilin-2; VEGF165R2; neuropilin-2b(0); neuropilin-2a(17); neuropilin-2a(22); receptor for VEGF165 and semaphorins class3; vascular endothelial cell growth factor 165 receptor 2; NP2; NPN2; PRO2714; MGC126574
Entrez Gene ID	8828
UniProt ID	O60462

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