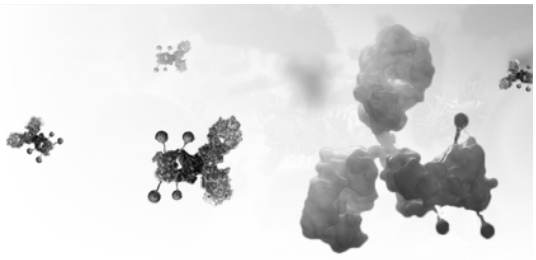

Hi-Puri™ Human Anti-Human NRP1/2 Monoclonal antibody, clone YW68.11.26 (DMAB-CDB25112)

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

PRODUCT INFORMATION

Product Overview	YW68.11.26 is a monoclonal antibody that crossreacts with both Nrp1 and Nrp2 with affinities of 0.21 and 0.15 nM, respectively. YW68.11.26 can completely antagonize the function of Sema3A.
Specificity	YW68.11.26 crossreacts with both Nrp1 and Nrp2.
Target	Human/Mouse NRP
Immunogen	NRP1/NRP2
Isotype	IgG
Source/Host	Human
Species Reactivity	Human, Mouse
Clone	YW68.11.26
Purification	>90% determined by SDS-PAGE
Conjugate	Unconjugated
Applications	Suitable for use in ELISA, FC. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Liquid

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Concentration	lot specific
Size	200 μg, 1 mg
Buffer	PBS (endotoxin < 1EU/mg, lower endotoxin levels may also be offered upon request)
Preservative	None
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles.
Ship	Dry ice

BACKGROUND

Introduction	Neuropilin-1 and -2 (Nrp1 and Nrp2), non-tyrosine kinase receptors with a molecular weight of approximately 120 kDa, were initially described as axonally expressed proteins and later recognized as binding partners for class 3 semaphorins. They further serve as isoform-specific VEGF (vascular endothelial growth factor) co-receptors on endothelial cells and are involved in vascular development and tumorigenesis. Genetic ablation of Nrp1 or Nrp2 indicate that both homologs play critical, but nonoverlapping roles during neuronal and vascular development. Upregulation of Nrp expression has been proposed to contribute to tumor formation in a number of diseases such as prostate, breast, and colon cancer, and has been implicated in increasing mortality in acute myeloid leukemia. The linkage between neuronal and vascular wiring along with the upregulation of neuropilin in tumors has prompted considerable efforts to understand the molecular roles of Nrps in the processes of angiogenesis, neuronal development, and tumor biology, and makes these receptors attractive targets for drug development.
Keywords	Neuropilin-1; Neuropilin-2; Nrp1; Nrp2; Neuropilin; Nrp

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