

# Monoclonal Anti-human Neuropilin-1/CD304

**Product reference: DDX0440**

## Description

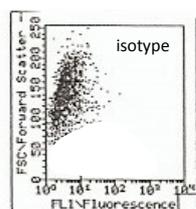
We have generated a mAb that identifies human pDCs *ex vivo*. In blood, 211H6 antigen is highly expressed on IL3R $\alpha$ <sup>+</sup> BDCA-2<sup>+</sup> CD11c<sup>-</sup> pDCs. It does not stain lymphocytes, monocytes, basophils and granulocytes. *In vitro* it is also expressed on monocyte-derived DCs. Upon maturation, in IL-3 and CD40L, or with *influenzae* virus, 211H6 is maintained at the cell surface. *In situ* 211H6 recognizes some isolated cells in T cell zones of tonsils, lymphatic vessels and high endothelial venules. The 211H6 antigen (110KDa) has been identified as BDCA-4. Neuropilin-1 is a membrane-bound co-receptor to a tyrosine kinase receptor for both vascular endothelial growth factor (VEGF) and semaphorin (SEMA3A) family members. Neuropilin 1 plays versatile roles in angiogenesis, axon guidance, cell survival, migration and invasion. (Dzionic A and al., 2000 *J. Immunol.*, 165: 6037-6046; Dzionic A. et al., 2002, *Human Immunology*, 63,1133-48).

**Clone:** 211H6.01  
**Species:** mouse  
**Specificity:** human neuropilin-1 (epitope in extracellular domain)  
**Immunogen:** CD34<sup>+</sup> derived DCs  
**Species cross-reactivity:** swine, dog  
**Isotype:** IgG1,  $\kappa$   
**Formulation/size:** **Purified:** 100  $\mu$ g in 200 $\mu$ l / 50  $\mu$ g in 100  $\mu$ l Tris-NaCl pH 8  
**Coupled:** 100  $\mu$ g in 200 $\mu$ l / 50  $\mu$ g in 100  $\mu$ l PBS 50% glycerol

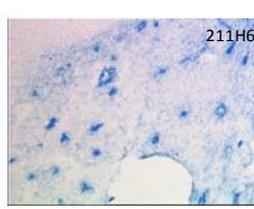
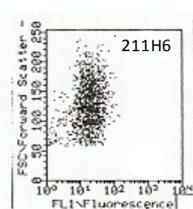
## Available formats:

Reference N°		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0440P-50	DDX0440P-100	Purified	Flow cytometry, IHC, IP
DDX0440A488-50	DDX0440A488-100	Alexa-fluor® 488	Flow cytometry
DDX0440A546-50	DDX0440A546-100	Alexa- fluor® 546	Flow cytometry
DDX0440A647-50	DDX0440A647-100	Alexa- fluor® 647	Flow cytometry
DDX0440B-50	DDX0440B-100	Biotin ( <i>on request</i> )	Flow cytometry, IHC, IP

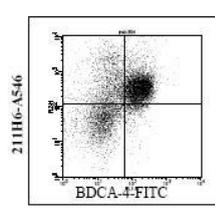
**Applications tested:** Flow cytometry, IHC



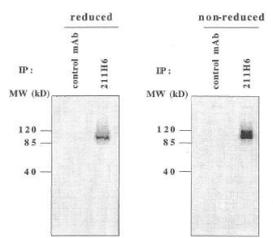
Facs analysis of human monocyte-derived DCs



IHC staining of human tonsil



Facs staining of lin<sup>-</sup> human PBMC



IP of <sup>125</sup>I-labeled mono-DC with 211H6

**Usage recommendation:**  
 \*This monoclonal antibody may be used between 5-20  $\mu$ g/ml  
 \*Optimal dilution should be determined by each laboratory for each application  
 \*Coupled antibody: to maintain RT before using

**Aliquot storage conditions: -20°C. KEEP CONTENTS STERILE: no preservative.**  
**Purified antibodies: avoid repeated freeze/thaw cycles.**  
**Coupled antibodies: glycerol protects from freezing.**

Not for use in Humans. For research purpose only