

Monoclonal Anti-human ASPGR/CD301

Product reference: DDX0011

Description

ASGPR/MGL (asialoglycoprotein / macrophage galactose lectin receptor) / CD301 is a Ca²⁺ dependent type II transmembrane lectin. Immunoprecipitation from DCs using anti-DC-ASGPR mAb yields a major 40-kDa protein. ASGPR mRNA is observed predominantly in immune tissues (DCs and granulocytes), but not in T, B, or NK cells, or monocytes. ASGPR species are restricted to the CD14⁻ derived DCs obtained from CD34⁺ progenitors, while absent from the CD1a-derived subset. Accordingly, both monocyte-derived DCs and tonsillar interstitial-type DCs express ASGPR protein, while Langerhans-type cells do not. ASGPR is a feature of immaturity, as its expression is lost upon CD40L activation. In agreement with the presence of tyrosine-based and dileucine motifs in the intracytoplasmic domain, mAb against DC-ASGPR is rapidly internalized by DCs at 37°C. Finally, intracellular ASGPR is localized in early endosomes, suggesting that the receptor recycles to the cell surface following internalization of ligand. ASGPR/HML is a feature of immature DCs and a subtype of macrophages, and likely important for the specialized antigen-capture function of DCs. (Valladeau J et al, 2001, J. Immunol., 167: 5767)

Clone:	121A5.01
Species:	mouse
Specificity:	human ASGPR/MGL
Immunogen:	human ASGPR Ig fusion protein
Species cross-reactivity:	nd
Isotype:	IgG1
Purification:	QMA Hyper D ion exchange chromatography)
Formulation/size:	Purified: 100 µg in 200 µl / 50µg in 100 µl Tris-NaCl pH 8
	Coupled: 100 µg in 200 µl / 50µg in 100 µl PBS 50% glycerol

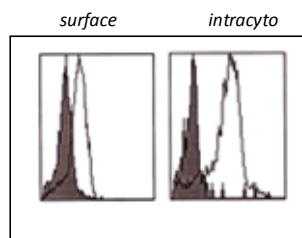
Available formats: (other clones available on request)

Reference N°		Format	Application tested
50 µg	100 µg		
DDX0011P-50	DDX0011P-100	Purified	IHC, IP, WB, Antigen capture endocytosis
DDX0011A488-50	DDX0011A488-100	Alexa-fluor® 488	Surface and intracyto Flow cytometry, IF
DDX0011A546-50	DDX0011A546-100	Alexa- fluor® 546	IF
DDX0011A647-50	DDX0011A647-100	Alexa- fluor® 647	Surface and intracyto Flow cytometry
DDX0011B-50	DDX0011B-100	Biotin	IP

Applications tested: Flow cytometry, IHC on cryosection, antigen-capture endocytosis.



Tonsil tissue section: cells stained with 121A5.01 (blue) are found throughout the tonsil, except in follicles (f)



FACS analysis of monocyte-derived DCs (GM+IL4) stained with 121A5.01 + GAM-FITC

Usage recommendation:

- *This monoclonal antibody may be used between 5-20 µg/ml.
- *Optimal dilution should be determined by each laboratory for each application.
- *Coupled antibody: to maintain RT before use.

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