

## Monoclonal Anti-human, porcine CD1a

### Product reference: DDX0081

#### Description:

CD1 family molecules have structural homologies with MHC class I molecules. They are monomeric proteins of 50 kDa, non-covalently associated with  $\beta$ 2-microglobulin. Human CD1a molecules are divided in 2 groups. Group 1 includes CD1a, CD1b, and CD1c, while group 2 consists of the CD1d molecule. CD1a is mainly expressed at the cell-surface and in recycling vesicles. CD1a occurs in Birbeck granules of Langerhans cells and plays a role in presentation of non-peptide antigens. CD1a is expressed *in vitro* on CD34<sup>+</sup>-generated DCs and on monocyte-derived DCs. (*Burdin N. et al., 1999, Curr Opin Immunol, 11:326-31*).

**Clone:** 201B5.08  
**Species:** mouse, IgG1  
**Specificity:** human CD1a (epitope in extracellular domain)  
**Immunogen:** *in vitro* derived human DCs (GM-CSF + TNF $\alpha$ )  
**Species cross-reactivity:** pig

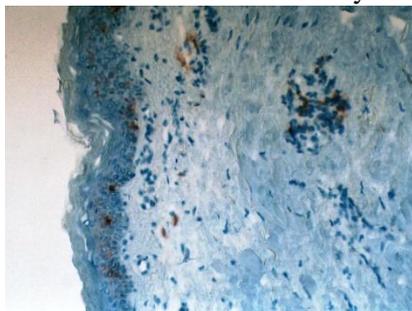
**Purification:** QMA hyper D ion exchange chromatography  
**Formulation/size:** **Purified:** 100  $\mu$ g in 200  $\mu$ l / 50  $\mu$ g in 100  $\mu$ l Tris-NaCl pH 8

#### Available formats:

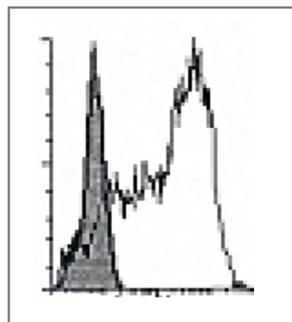
Reference		Format	Application tested
50 $\mu$ g	100 $\mu$ g		
DDX0081P-50	DDX0081P-100	Purified	Surface Flow Cytometry, IHC
DDX0081A488-50	DDX0081A488-100	Alexa-fluor@488	Surface flow cytometry, IF
DDX0081A546-50	DDX0081A546-100	Alexa- fluor@546 ( <i>on request</i> )	surface Flow Cytometry
DDX0081A647-50	DDX0081A647-100	Alexa- fluor@647	Surface flow cytometry
DDX0081B-50	DDX0081B-100	Biotin ( <i>on request</i> )	Surface Flow Cytometry, IHC

*Other clones available on request*

**Applications tested** Surface flow cytometry



*IHC staining of human skin with 201B5.08 mAb*



*Surface Facs staining of CD34<sup>+</sup>-derived DCs with 201B5.08 mAb*

**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

**Antibody 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