



Monoclonal Anti-human DCIR/CD367

1/ DESCRIPTION:

DCIR (dendritic cell immunoreceptor)/CD367, also known as LLIR, DDB27, CLECSF6, HDCGC13P, is a member of the Dectin-2 family of C-type lectins. DCIR is expressed as a type II membrane glycoprotein of 237 aa with a single carbohydrate recognition domain (CRD), closest in homology to those of the macrophage lectin and hepatic asialoglycoprotein receptors. In contrast to the other members of this family, the intracellular domain of DCIR contains a consensus immunoreceptor tyrosine-based inhibitory motif (ITIM). DCIR is expressed on dendritic cells, monocytes, macrophages, B lymphocytes, neutrophils, granulocytes and plasmacytoid dendritic cells, but not detected on NK and T cells. *In vitro*, DCIR is strongly expressed by DCs derived from blood monocytes cultured with GM-CSF and IL-4 with a higher expression in CD14⁺ than CD1a⁺ derived DC. Finally, DCIR expression is down-regulated by signals inducing DC maturation such as CD40 ligand, LPS, or TNF- α . Thus, DCIR is differentially expressed on DCs depending on their origin and stage of maturation/activation. DCIR represents a novel surface molecule expressed by antigen-presenting cells, and of potential importance in regulation of DC function.

Clone: 111F8.04

Species: mouse

Isotype: IgG1

Immunogen: human DCIR-Ig fusion protein

Species cross-reactivity: ND

Specificity: human DCIR

2/ STABILITY-CONSERVATION :

Aliquot storage conditions: -20°C. KEEP CONTENTS STERILE: no preservative.

Purified antibodies: avoid repeated freeze/thaw cycles.

Coupled antibodies: glycerol protects from freezing.

Stable one year upon receipt

3/ AVAILABLE FORMATS:

Reference N°	Format	Application tested
100 μ g		
DDX0180P-100	Purified	Surface Flow cytometry, IHC, WB, IP
DDX0180A488-100	Alexa-fluor® 488	Surface Flow cytometry, IF
DDX0180A546-100	Alexa- fluor® 546	IF
DDX0180A647-100	Alexa- fluor® 647	Surface Flow cytometry
DDX0180B-100	Biotin (<i>on request</i>)	IHC, WB

4/ USAGE RECOMMENDATION

This antibody may be used between 5-20 μ g/ml.

Optimal dilution should be determined by each laboratory for each application.

Coupled antibody: to maintain room temperature before use

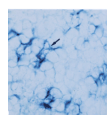
RUO : research use only

5/ MATERIALS AND METHODS

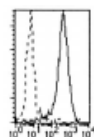
Purification: QMA Hyper D ion exchange chromatography

Purified in Tris-NaCl pH8 and adjusted at 0.5mg/ml in PBS+ antibiotics

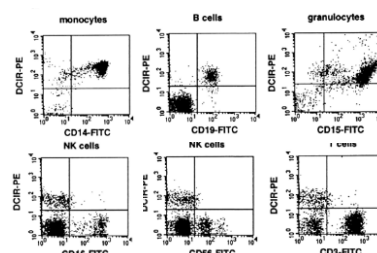
Coupled: 0.5mg/ml in PBS 50%glycerol+ antibiotics



IHC staining of human tonsil frozen section with 111F8 (X1000)



FACS staining of monocyte-derived DCs (GM+IL4) with 111F8



Facs analysis of DCIR expression on human peripheral blood leukocytes using 111F8

6/ BIBLIOGRAPHY :

<http://www.dendritics.net/products/detail/ddx0180-111f8.04>