

Product datasheet for **DDX0363A647-100**

Langerin (CD207) Mouse Monoclonal Antibody [Clone ID: DCGM4/122D5.03]

Product data:

Product Type: Primary Antibodies
Clone Name: DCGM4/122D5.03
Applications: FC
Recommended Dilution: **DDX0363P-50 DDX0363P-100 Purified:** Internalization, Flow cytometry, IHC.
DDX0363A488-50 DDX0363A488-100 Alexa-fluor®488: Flow cytometry, IF.
DDX0363A546-50 DDX0363A546-100 Alexa-fluor®546: IF.
DDX0363A647-50 DDX0363A647-100 Alexa- fluor®647: Flow cytometry.
DDX0363B-50 DDX0363B-100 Biotin: Western blot.

Usage recommendation:

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

Reactivity: Canine, Human
Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
Immunogen: In vitro-derived human DCs from CD34+ cells in GM-CSF+TNFα
Specificity: Human Langerin (extracellular epitope in Carbohydrate Recognition domain).
Species cross-reactivity: Dog.

Formulation: **Purified:** 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8.
Coupled: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol.
Label: Alexa Fluor 647

Concentration: lot specific

Purification: QMA Hyper D ion exchange chromatography

Conjugation: Alexa Fluor 647

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



[View online »](#)

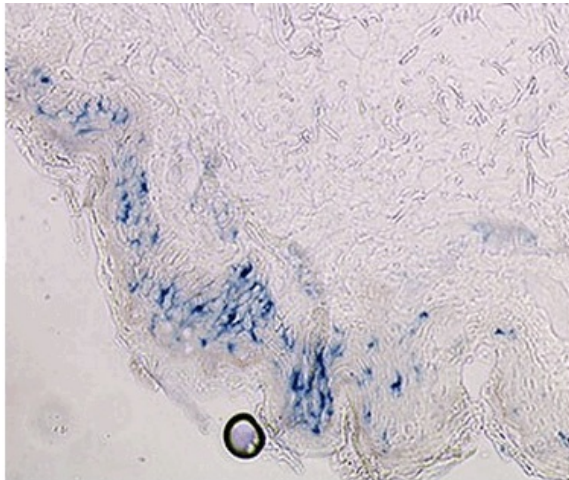
Gene Name: CD207 molecule

Database Link: [Entrez Gene 50489 Human](#)

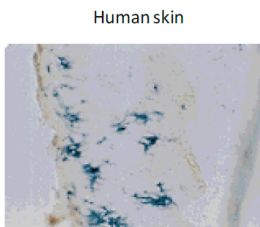
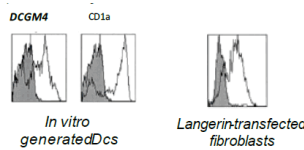
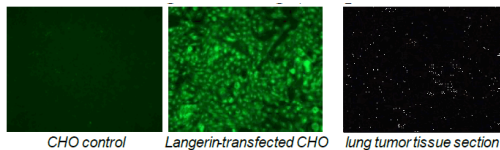
Background: Langerin/CD207 is a transmembrane C-type lectin receptor (CLR) of epidermal and mucosal Langerhans cells (LCs) that induces Birbeck's granule formation. Langerin features a single carbohydrate recognition domain (CRD) with mannose-type specificity in its extracellular portion. Langerin is unique among the CLRs in that it contains an intracellular domain with a proline-rich motif. Langerin expression has not been reported outside the DC system. (Valladeau J et al, 1999, *Eur.J.Immunol.*, 29:2695-2704; Valladeau J et al, 2000 *Immunity*, 12 : 71-81; Kashihara M et al, 1986, *J.Invest.Derm.*, 87 :602-607 ; Ito T et al, 1999, *J.Immunol.*, 163 :1409-1419 ;Saeland S & Valladeau J, *CD207 (Langerin) Workshop reports 2002, Leukocyte-Typing VII, White Cell Diff Antigens*, D. Mason et al, Eds, Oxford University Press:306-307)

Synonyms: CLEC4K, Dendritic Cell Marker

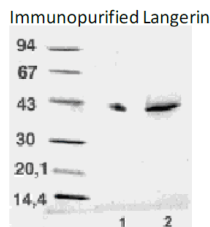
Product images:



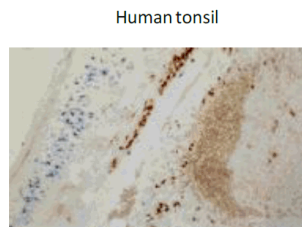
IHC staining of human skin frozen section with clone 122D5 (DX0363)



DCGM4(blue)



Western-blot DCGM4
1: non-reduced 2: reduced



slgD (red) DCGM4(blue)

Valladeau J et al, 1999, *Eur.J.Immunol*