

## Product datasheet for **DDX0363P-100**

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

#### Product data:

**Product Type:** Primary Antibodies  
**Clone Name:** DCGM4/122D5.03  
**Applications:** FC, IHC, WB  
**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 by 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.  
State: Purified  
**Concentration:** lot specific  
**Purification:** QMA Hyper D ion exchange chromatography  
**Storage:** **-20°C. KEEP CONTENTS STERILE: no preservative.**  
**Purified antibodies:** avoid repeated freeze/thaw cycles.  
**Coupled antibodies:** glycerol protects from freezing.  
**Gene Name:** CD207 molecule



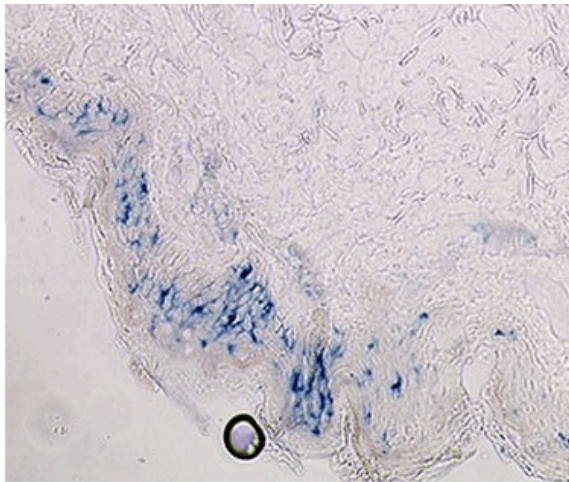
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Database Link: [Entrez Gene 50489 Human](#)

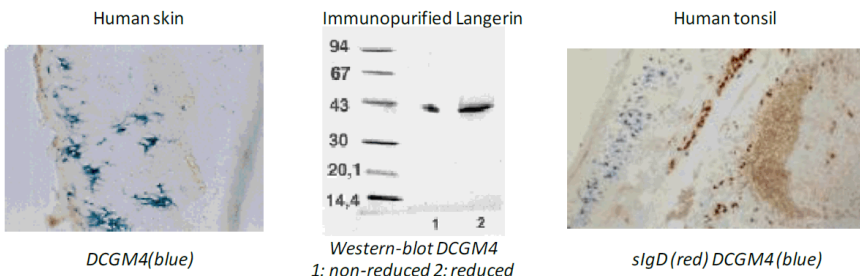
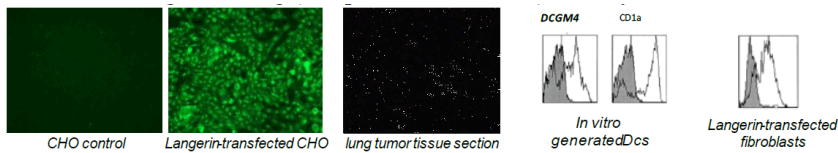
**Background:** Langerin/CD207 is a transmembrane C-type lectin receptor (CLR) of epidermal and mucosal Langerhans cells (LCs) that induces Birbeck’s granule formation. Langerin features a single carbohydrate recognition domain (CRD) with mannose-type specificity in its extracellular portion. Langerin 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)



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