



## Monoclonal Anti-human Langerin/CD207

### 1/ DESCRIPTION:

Langerin/CD207 is a transmembrane C-type lectin receptor (CLR) of epidermal and mucosal Langerhans cells (LCs) that induces Birbeck's granule. Langerin features a single carbohydrate recognition domain (CRD) with mannose-type specificity in its extracellular portion. Langerin expression has not been reported outside the DC system. Human Langerin is involved in the processing of mycobacterial glycolipids leading to antigen presentation to CD1a-restricted T cells. Human Langerin binds the gp120 of HIV

**Clone:** 929F3.01

**Species:** rat

**Isotype:** IgG2a,k

**Immunogen:** human Langerin-transfected eukaryotic cells

**Species cross-reactivity:** rat, mouse, swine, human, horse

**Specificity:** human Langerin

### 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° 100 µg	Format	Application tested
DDX0362P-100	Purified	IF, IHC formol-paraffin, Flow cytometry
DDX0362A488-100	Alexa-fluor® 488	IF, IHC, Flow cytometry
DDX0362A546-100	Alexa- fluor® 546	IF, IHC, Flow cytometry
DDX0362A647-100	Alexa- fluor® 647	IF, IHC, Flow cytometry
DDX0362B-100	Biotin (on request)	IHC, Flow cytometry

### 4/ USAGE RECOMMENDATION

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

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

Coupled antibody: to maintain room temperature before use

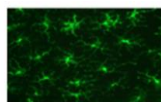
**RUO** : research use only

### 5/ MATERIALS AND METHODS

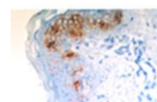
Purification: QMA Hyper D ion exchange chromatography

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

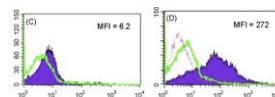
**Coupled:** 0.5mg/ml in PBS 50%glycerol+ antibiotics



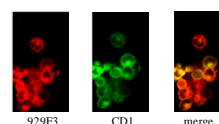
IF on mouse epidermal sheet  
with 929F3-A488



IHC staining of human skin cryosections  
with 929F3-HRP



Cells derived from culture of porcine skin stained  
permeabilized (D) or not (C) with 929F3



IF staining on isolated skin-isolated porcine Langerhans cells

### 6/ BIBLIOGRAPHY :

<http://www.dendritics.net/products/detail/ddx0362-929f3.01>