



## Monoclonal Anti-mouse 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 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.

**Clone:** 310F7.02

**Species:** mouse

**Isotype:** IgG1

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

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

**Specificity:** mouse Langerin (intracellular epitope)

### 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 µg          |                     |   |
| DDX0361P-100    | Purified            | Paraffin (Bouin) in human section, IHC, ELISA |
| DDX0361A488-100 | Alexa-fluor® 488    | Intracellular Flow cytometry, IF              |
| DDX0361A546-100 | Alexa- fluor® 546   | IF  |
| DDX0361A647-100 | Alexa- fluor® 647   | Flow cytometry                                |
| DDX0361B-100    | Biotin (on request) | IHC, ELISA, 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

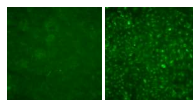
**RUO** : research use only

### 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

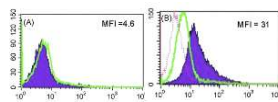
**Coupled:** 0.5mg/ml in PBS 50%glycerol+ antibiotics



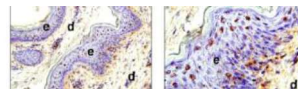
IF 310F7.02 staining of CHO cells transfected (right) or not (left) with mouse Langerin



IHC staining of human skin paraffin section with 310F7.02



FACS staining with 310F7.02 of cells derived from overnight culture of porcine skin biopsies permeabilized (B) or not (A).



Porcine skin cryosections were stained with 310F7.02  
A:16X; B:40X; e: epidermis; d: dermis

### 6/ BIBLIOGRAPHY :

<http://www.dendritics.net/products/detail/ddx0361-310f7.02>

