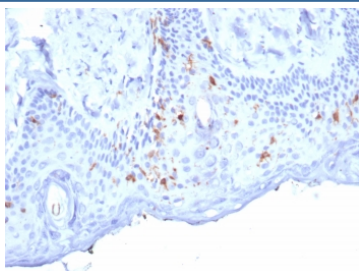


## Langerin Antibody / CD207 [clone LGRN/7357] (V4881)

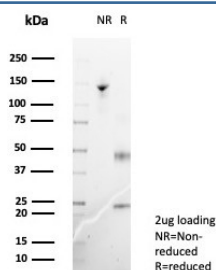
| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V4881-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4881-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4881SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

[Bulk quote request](#)

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                          |
| <b>Species Reactivity</b> | Human                                                      |
| <b>Format</b>             | Purified                                                   |
| <b>Host</b>               | Mouse                                                      |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                  |
| <b>Isotype</b>            | Mouse IgG                                                  |
| <b>Clone Name</b>         | LGRN/7357                                                  |
| <b>Purity</b>             | Protein A/G affinity                                       |
| <b>UniProt</b>            | Q9UJ71                                                     |
| <b>Localization</b>       | Cell surface, Cytoplasm                                    |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT    |
| <b>Limitations</b>        | This Langerin antibody is available for research use only. |



IHC staining of FFPE human skin tissue with Langerin antibody (clone LGRN/7357).  
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Langerin antibody (clone LGRN/7357) as confirmation of integrity and purity.

## Description

Langerhans cells (LCs) are a subset of immature dendritic cells (DCs) that specifically localize in the epidermis and other mucosal epithelia. Epidermal LCs possess strong immuno-stimulatory capacity and play a central role in the initiation and regulation of immune responses. Langerin (CD207) is a  $\text{Ca}^{2+}$ -dependent, C-type lectin domain containing, type II transmembrane protein that induces epidermal LCs to differentiate into Birbeck granules (BG). BGs are organelles with superimposing and zipper membranes that influence proper class I type antigen presentation to the circulating T cells. Human spleen, lymph node, thymus, liver, lung and heart express Langerin protein.

## Application Notes

Optimal dilution of the Langerin antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 50-250) from the human protein was used as the immunogen for the Langerin antibody.

## Storage

Aliquot the Langerin antibody and store frozen at  $-20^{\circ}\text{C}$  or colder. Avoid repeated freeze-thaw cycles.