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36-2888: Anti-Langerin / CD207 (Marker of Langerhans Cells) Monoclonal Antibody(Clone: LGRN/1821)

Clonality :	Monoclonal
Clone Name :	LGRN/1821
Application :	ELISA,WB
Reactivity :	Human
Gene :	CD207
Gene ID :	50489
Uniprot ID :	Q9UJ71
Alternative Name :	C-type lectin domain family 4 member K; CD207; CLEC4K; Langerhans cell specific c type lectin; Langerin
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Recombinant fragment (around aa74-213) of human Langerin protein (exact sequence is proprietary)

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 Ca2+-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 zippering 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Western Blot (1-2ug/ml);

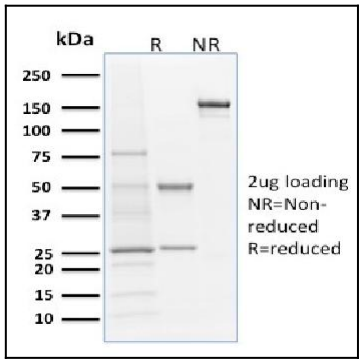

Fig. 1: SDS-PAGE Analysis Purified Langerin Mouse Monoclonal Antibody (LGRN/1821). Confirmation of Integrity and Purity of Antibody.

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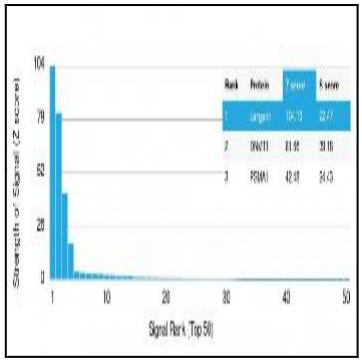

Fig. 2: Analysis of Protein Array containing more than 19,000 full-length human proteins using Langerin (CD207) Mouse Monoclonal Antibody (LGRN/1821). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.