

Mouse anti-Human Langerin/CD207 Monoclonal Antibody | anti-CD207 antibody

Langerin/CD207 (Marker of Langerhans Cells)

CATALOG # AAA215120	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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PRODUCT SYNONYMS

Langerin/CD207; Monoclonal Antibody; Langerin/CD207 (Marker of Langerhans Cells); C-type lectin domain family 4 member K; CD207; CLEC4K; Langerhans cell specific c type lectin; Langerin; anti-CD207 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	LGRN/1821
Specificity	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 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 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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/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.
Sequence Length	328
Applicable Applications for anti-CD207 antibody	WB (Western Blot), ELISA
Positive Control	HeLa or A549 cells (WB).
Immunogen	Recombinant fragment (around aa74-213) of human Langerin protein (exact sequence is proprietary)
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	2p13.3
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

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 HuProt™ 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 HuProt™ 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.



SDS-PAGE

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

ADDITIONAL INFORMATION

References	Valladeau, J., et al. 2000. Langerin, a novel C-type lectin specific to Langerhans cells, is an endocytic receptor that induces the formation of Birbeck granules. Immunity 12: 71-81
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NCBI AND UNIPROT INFORMATION

NCBI GI #	557357745
NCBI GeneID	50489
NCBI Accession #	NP_056532.4
NCBI GenBank Nucleotide #	NP_056532.4
UniProt Accession #	Q9UJ71
Molecular Weight	48kDa
NCBI Official Full Name	C-type lectin domain family 4 member K
NCBI Official Synonym Full Names	CD207 molecule
NCBI Official Symbol	CD207
NCBI Official Synonym Symbols	CLEC4K
NCBI Protein Information	C-type lectin domain family 4 member K
UniProt Protein Name	C-type lectin domain family 4 member K
UniProt Gene Name	CD207
UniProt Synonym Gene Names	CLEC4K
UniProt Entry Name	CLC4K_HUMAN

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