

ARG83247 Human Langerin / CD207 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83247 Human Langerin / CD207 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Langerin / CD207 in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Langerin / CD207
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	13 pg/ml
Detection Range	156 pg/ml - 10,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 7.2%
Alternate Names	CD207; CD207 Molecule; CLEC4K; C-Type Lectin Domain Family 4 Member K Langerin; Langerhans Cell Specific C-Type Lectin; CD207 Molecule, Langerin; CD207 Antigen, Langerin; C-Type Lectin Domain Family 4, Member K; CD207 Antigen

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

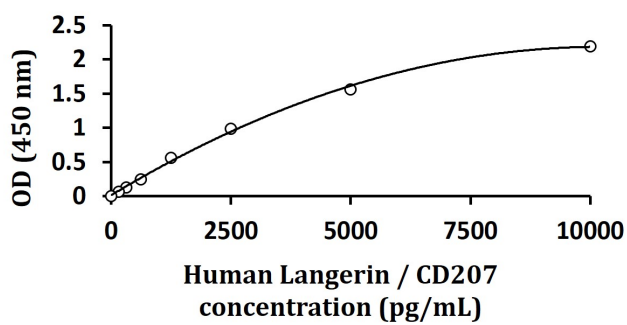
Bioinformation

Gene Symbol	CD207
Gene Full Name	CD207 Molecule
Background	The protein encoded by this gene is expressed only in Langerhans cells which are immature dendritic cells of the epidermis and mucosa. It is localized in the Birbeck granules, organelles present in the cytoplasm of Langerhans cells and consisting of superimposed and zippered membranes. It is a C-type lectin with mannose binding specificity, and it has been proposed that mannose binding by this protein leads to internalization of antigen into Birbeck granules and providing access to a nonclassical antigen-

processing pathway. Mutations in this gene result in Birbeck granules deficiency or loss of sugar binding activity.

Function	Calcium-dependent lectin displaying mannose-binding specificity. Induces the formation of Birbeck granules (BGs); is a potent regulator of membrane superimposition and zippering. Binds to sulfated as well as mannosylated glycans, keratan sulfate (KS) and beta-glucans. Facilitates uptake of antigens and is involved in the routing and/or processing of antigen for presentation to T cells. Major receptor on primary Langerhans cells for <i>Candida</i> species, <i>Saccharomyces</i> species, and <i>Malassezia furfur</i> . Protects against human immunodeficiency virus-1 (HIV-1) infection. Binds to high-mannose structures present on the envelope glycoprotein which is followed by subsequent targeting of the virus to the Birbeck granules leading to its rapid degradation.
PTM	Disulfide bond, Glycoprotein
Cellular Localization	Membrane

Images



ARG83247 Human Langerin / CD207 ELISA Kit standard curve image

ARG83247 Human Langerin / CD207 ELISA Kit results of a typical standard run with optical density reading at 450 nm.