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Datasheet for 200-401-H89

Langerin Antibody

Overview

Description:	Anti-Langerin (RABBIT) Antibody - 200-401-H89
Item No.:	200-401-H89
Size:	100 µg
Applications:	FC, IHC, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-Langerin Antibody detects mouse Langerin. Langerin (CD207) is a type II membrane-associated C-type lectin known to be expressed exclusively by Langerhans cells. Langerin (CD207) recognizes mannose residues via its single carbohydrate recognition domain (CRD). Langerin (CD207) is localized not only on the cell surface, but also intracellularly in close association with Birbeck granules. Transfection of Langerin cDNA into fibroblasts creates a compact network of membrane structures with typical features of Birbeck granules (BG). Langerin (CD207) is thus a potent inducer of membrane superimposition and zippering leading to BG formation. Anti-Langerin Antibody is ideal for investigators involved in Toll Like Receptors, signaling, and extracellular matrix research.
Synonyms:	Clec4k, C-type lectin domain family 4 member K, Langerin, CD207
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Cd207
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Langerin Antibody was produced from whole rabbit serum prepared by repeated immunizations with mouse Langerin protein at an internal amino acid sequence.

Purity/Specificity:	Anti-Langerin Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Langerin from mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Langerin from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8VBX4 • NCBI - NP_659192.2 • GeneID - 246278

Application Details

Tested Applications:	FC, IHC, WB
Application Note:	Anti-Langerin Antibody is tested for use in WB, Flow, Flow-IC, IHC, IHC-Fr, and IHC-P. Expect a band approximately 36kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	5 µg/mL (paraffin)
WB:	1-3 µg/mL

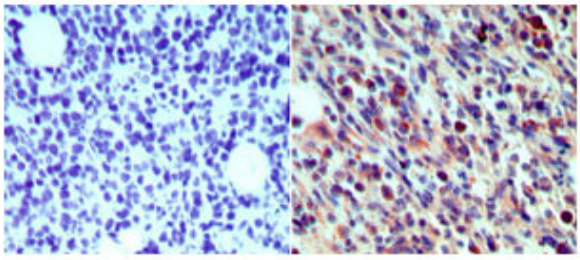
Formulation

Physical State:	Liquid
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

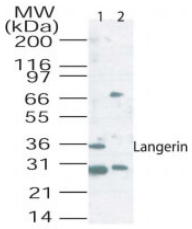
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of Rabbit Anti-Langerin antibody. Tissue: mouse breast. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Langerin antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT.
Staining: Isotype control is on left and Langerin as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Rabbit Anti-Langerin antibody. Lane 1: mouse lung tissue lysate without blocking peptide. Lane 2: mouse lung tissue lysate with blocking peptide. Primary antibody: Langerin at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for Langerin. Other band(s): none.

Disclaimer

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