

Mouse Anti-Langerin/CD207 [H4]: MC0325, MC0325RTU7

Intended Use: For Research Use Only

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 immunostimulatory 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. Langerin protein expression has utility in differentiating Langerhans cell histiocytosis from other non-Langerhans cell histiocytic proliferations.

Specifications

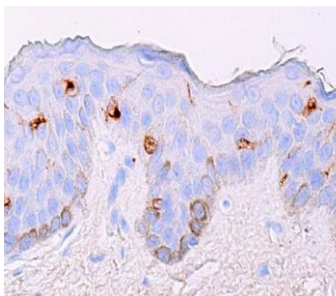
Clone: H4
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF, IP, WB
 Package:

Description	Catalog No.	Size
Langerin/CD207 Concentrated	MC0325	1 ml
Langerin/CD207 Prediluted	MC0325RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Transitional cell cancer, basal cell cancer
 Concentrated Dilution: 25-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human skin stained with anti-Langerin using DAB

References:

1. Dual Specificity of Langerin to Sulfated and Mannosylated Glycans via a Single C-type Carbohydrate Recognition Domain. Hiroaki Tateno, et al. JBC Papers in Press, December 21, 2009,
2. Activin A Induces Langerhans Cell Differentiation In Vitro and in Human Skin Explants. Tiziana Musso, et al. September 24, 2008.
3. Langerin (CD207) staining in normal pediatric tissues, reactive lymph nodes, and childhood histiocytic disorders. Kudakwashe ChikwavaRonald Jaffe, Pediatric And Developmental Pathology. December Volume 7, Issue 6, pp 607–614, 2004.