

## Mouse anti-Langerin, clone 12D6 (monoclonal)

Clone no. 12D6

MONXtra

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Product name	Mouse anti-Langerin, clone 12D6 (monoclonal)
Host	Mouse
Applications	IHC-P (1:50)
Species reactivity	human
Conjugate	-
Immunogen	Prokaryotic recombinant protein of 29 kD corresponding to the external domain of the langerin molecule.
Isotype	IgG2b, kappa
Clonality	Monoclonal
Clone number	12D6
Size	1ml
Concentration	Greater than or equal to 20 mg/L
Format	-
Storage buffer	Tissue culture supernatant with sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

Langerin is a type II transmembrane C-type lectin which has mannose-binding specificity. It is a 40 kD protein restricted to Langerhans cells that is involved in the internalization of cell surface material in these immature dendritic cells. Dendritic cells are antigen-presenting cells that are required for initiation of a specific T cell-driven immune response. These cells are found in non-lymphoid tissue as immature cells whose primary function is to capture antigen through specialized surface membrane endocytic structures or through macropinocytosis. The dendritic cells migrate to secondary lymphoid tissue and mature into efficient antigen presenting cells. A part of the maturation process includes the loss of adhesion receptors such as E-cadherin and the disappearance of Birbeck granules.

**References**

1. Yen EH et al. Journal of Pediatric Gastroenterology and Nutrition 2010;51(5): 51
2. Musso T et al. PLoS ONE 2008; 3(9): e3271.1-10
3. Rezk SA et al. American Journal of Surgical Pathology 2008;32(12):1868-1876
4. O'Donnell RK et al. Cancer Letters 2007;255(1):145-152
5. -

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