

Langerin (ZR170)

Rabbit Monoclonal Antibody

Host: Rabbit
Specificity: Human
Immunogen: Recombinant fragment (around aa50-250) of human Langerin protein
Ig Class: IgG
Storage: Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

Specifications: Langerin (ZR170) Rabbit Monoclonal primary antibody detects Langerin protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain Langerin protein.

Localization: Cell Surface and cytoplasmic.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

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 a strong immuno-stimulatory capacity and play a central role in initiating and regulating 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. The human spleen, lymph node, thymus, liver, lung, and heart express Langerin protein.

Supplied As: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Lau SK, et al. Am J Surg Pathol. 2008; 32:615-619.
2. Demellawy DE, et al. Pathology. 2015; 4:294-301.
3. Park L, et al. J Cutan Med Surg. 2012; 1:45-9.

REF Z2700RL/ Z2700RS/ Z2700RT/ Z2700RP (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)