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Langerin (D9H7R) XP[®] Rabbit mAb (PE Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJ71	Entrez-Gene Id: 50489
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Langerin (D9H7R) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Langerin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val14 of human langerin protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Langerin (D9H7R) XP [®] Rabbit mAb #13650.	
Background	Langerin (CD207) is a C-type lectin receptor whose expression is restricted mainly to dendritic cells in the skin including Langerhans cells in the epidermis and langerin ⁺ /CD103 ⁺ dermal dendritic cells (1-4). Langerin is found on the cell surface and within rod-shaped organelles called Birbeck granules, and its expression is required for the formation of Birbeck granules (1,5). Langerin recognizes carbohydrate motifs on the surface of pathogens, resulting in endocytosis of the pathogen into Birbeck granules, degradation of the pathogen, and antigen presentation to T cells (6-8).	
Background References	<ol style="list-style-type: none"> Valladeau, J. et al. (2000) <i>Immunity</i> 12, 71-81. Poulin, L.F. et al. (2007) <i>J Exp Med</i> 204, 3119-31. Ginhoux, F. et al. (2007) <i>J Exp Med</i> 204, 3133-46. Bursch, L.S. et al. (2007) <i>J Exp Med</i> 204, 3147-56. Kissenpfennig, A. et al. (2005) <i>Mol Cell Biol</i> 25, 88-99. Stambach, N.S. and Taylor, M.E. (2003) <i>Glycobiology</i> 13, 401-10. Idoyaga, J. et al. (2008) <i>J Immunol</i> 180, 3647-50. Igyártó, B.Z. et al. (2011) <i>Immunity</i> 35, 260-72. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human	
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