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#13650**Langerin (D9H7R) XP[®] Rabbit mAb**

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

Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40-50	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJ71	Entrez-Gene Id: 50489
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:100
1:800
1:3200

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #49830.

Specificity/Sensitivity

Langerin (D9H7R) XP[®] Rabbit mAb 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.

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

- Valladeau, J. et al. (2000) *Immunity* 12, 71-81.
- Poulin, L.F. et al. (2007) *J Exp Med* 204, 3119-31.
- Ginhoux, F. et al. (2007) *J Exp Med* 204, 3133-46.
- Bursch, L.S. et al. (2007) *J Exp Med* 204, 3147-56.
- Kissenpfennig, A. et al. (2005) *Mol Cell Biol* 25, 88-99.
- Stambach, N.S. and Taylor, M.E. (2003) *Glycobiology* 13, 401-10.
- Idoyaga, J. et al. (2008) *J Immunol* 180, 3647-50.
- Igyártó, B.Z. et al. (2011) *Immunity* 35, 260-72.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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