

Mouse CD207 Antibody | anti-CD207 antibody

Anti-Hu CD207 PE

CATALOG # AAA129368	HOST Mouse	REACTIVITY Human, Non-human primates	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD207; Anti-Hu CD207 PE; CD207 molecule; CLEC4K; langerin; anti-CD207 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Non-human primates
Isotype	Mouse IgG1 lambda
Clone Number	2G3
Specificity	The mouse monoclonal antibody 2G3 recognizes an extracellular/luminal epitope of CD207, a transmembrane protein selectively expressed by Langerhans cells and by some other dendritic cell subsets. This antibody clone can target vaccine-peptides to dendritic cells.
Purity/Purification	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD207 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Fusion protein of human CD207 extracellular part and IgG Fc fragment
Conjugation	PE
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



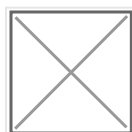
FCM/FACS (Flow Cytometry)

Separation of human CD207 positive dendritic cells differentiated upon monocyte stimulation (GM-CSF + IL-4)(red-filled) from non-stimulated lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10ul reagent per milion cells in 100ul of cell suspension).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10ul reagent per milion cells in 100ul of cell suspension) and anti-human CD11c (BU15) APC antibody (10ul reagent per milion cells in 100ul of cell suspension).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD207 (2G3) PE antibody (10ul reagent per milion cells in 100ul of cell suspension).

ADDITIONAL INFORMATION

Related Product Information for anti-CD207 antibody	CD207 is a 40 kDa type II transmembrane glycoprotein of the C-type lectin family. It binds to mannose-bearing glycoproteins and glycolipids of microbial and viral antigens, including HIV gp120. CD207 is expressed only in Langerhans cells, which are immature dendritic cells of the epidermis and mucosa, and its expression decreases during Langerhans cells maturation. Upon antigen binding CD207 localizes to the Birbeck granules, organelles present in the cytoplasm of Langerhans cells and consisting of superimposed membranes, which leads to a nonclassical antigen-processing pathway.
References	*Epaulard O, Adam L, Poux C, Zurawski G, Salabert N, Rosenbaum P, Dereuddre-Bosquet N, Zurawski S, Flamar AL, Oh S, Romain G, Chapon C, Banchereau J, Lévy Y, Le Grand R, Martinon F: Macrophage- and neutrophil-derived TNF-alpha instructs skin langerhans cells to prime antiviral immune responses. J Immunol. 2014 Sep 1;193(5):2416-26. , URL: https://pubmed.ncbi.nlm.nih.gov/25057007/ ,*Adam L, Tchitchek N, Todorova B, Rosenbaum P, Joly C, Poux C, Chapon C, Spetz AL, Ustav M, Le Grand R, Martinon F: Innate molecular and cellular signature in the skin preceding long-lasting T cell responses after electroporated DNA vaccination. J Immunol. 2020 Jun 15;204(12):3375-3388., URL: https://pubmed.ncbi.nlm.nih.gov/32385135/ ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	557357745
NCBI GeneID	50489
NCBI Accession #	NP_056532.4
NCBI GenBank Nucleotide #	NM_015717.4
UniProt Accession #	Q9UJ71
Molecular Weight	36,725 Da
NCBI Official Full Name	C-type lectin domain family 4 member K
NCBI Official Synonym Full Names	CD207 molecule
NCBI Official Symbol	CD207
NCBI Official Synonym Symbols	CLEC4K
NCBI Protein Information	C-type lectin domain family 4 member K
UniProt Protein Name	C-type lectin domain family 4 member K
UniProt Gene Name	CD207
UniProt Synonym Gene Names	CLEC4K
UniProt Entry Name	CLC4K_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.