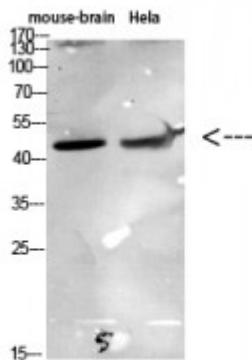


Anti-CKR-6 antibody



Description	Rabbit polyclonal to CKR-6.
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Model	STJ97667
Host	Rabbit
Reactivity	Human
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human CKR-6.
Immunogen Region	1-50 aa, N-terminal
Gene ID	1235
Gene Symbol	CCR6
Dilution range	WB 1:500-1:2000 ELISA 1:10000
Specificity	CKR-6 Polyclonal Antibody detects endogenous levels of CKR-6 protein.
Tissue Specificity	Sperm. Mainly localized in the tail and in the postacrosomal region but is also found in the midpiece and basal region in a small percentage of sperm cells. Reduced levels found in the sperms of asthenozoospermia and leukocytospermia patients (at protein level). Spleen, lymph nodes, appendix, and fetal liver. Expressed in lymphocytes, T-cells and B-cells but not in natural killer cells, monocytes or granulocytes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	C-C chemokine receptor type 6 C-C CKR-6 CC-CKR-6 CCR-6 Chemokine

	receptor-like 3 CKR-L3 DRY6 G-protein coupled receptor 29 GPR-CY4 GPRCY4 LARC receptor CD antigen CD196
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1607 OMIM:601835
Alternative Names	C-C chemokine receptor type 6 C-C CKR-6 CC-CKR-6 CCR-6 Chemokine receptor-like 3 CKR-L3 DRY6 G-protein coupled receptor 29 GPR-CY4 GPRCY4 LARC receptor CD antigen CD196
Function	Receptor for the C-C type chemokine CCL20 . Binds to CCL20 and subsequently transduces a signal by increasing the intracellular calcium ion levels . Although CCL20 is its major ligand it can also act as a receptor for non-chemokine ligands such as beta-defensins . Binds to defensin DEFB1 leading to increase in intracellular calcium ions and cAMP levels. Its binding to DEFB1 is essential for the function of DEFB1 in regulating sperm motility and bactericidal activity . Binds to defensins DEFB4 and DEFB4A/B and mediates their chemotactic effects . The ligand-receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/ memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and various autoimmune diseases. CCR6-mediated signals are essential for immune responses to microbes in the intestinal mucosa and in the modulation of inflammatory responses initiated by tissue insult and trauma . CCR6 is essential for the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation. Required for the normal migration of Th17 cells in Peyer's-patches and other related tissue sites of the intestine and plays a role in regulating effector T-cell balance and distribution in inflamed intestine. Plays an important role in the coordination of early thymocyte precursor migration events important for normal subsequent thymocyte precursor development, but is not required for the formation of normal thymic natural regulatory T-cells (nTregs). Required for optimal differentiation of DN2 and DN3 thymocyte precursors. Essential for B-cell localization in the subepithelial dome of Peyer's-patches and for efficient B-cell isotype switching to IgA in the Peyer's-patches. Essential for appropriate anatomical distribution of memory B-cells in the spleen and for the secondary recall response of memory B-cells . Positively regulates sperm motility and chemotaxis via its binding to CCL20 .
Cellular Localization	Cell membrane Cell surface