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CCR10 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13744A

Product Information

Application	WB, E
Primary Accession	P46092
Other Accession	NP_057686.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33732
Calculated MW	38416
Antigen Region	1-30

Additional Information

Gene ID	2826
Other Names	C-C chemokine receptor type 10, C-C CKR-10, CC-CKR-10, CCR-10, G-protein coupled receptor 2, CCR10, GPR2
Target/Specificity	This CCR10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CCR10.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CCR10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCR10
Synonyms	GPR2
Function	Receptor for chemokines SCYA27 and SCYA28. Subsequently transduces a

signal by increasing the intracellular calcium ions level and stimulates chemotaxis in a pre-B cell line.

Cellular Location Cell membrane; Multi-pass membrane protein.

Tissue Location Expressed at high levels in adult testis, small intestine, fetal lung, fetal kidney. Weaker expression was observed in many other adult tissues including spleen, thymus, lymph node, Peyer patches, colon, heart, ovary, peripheral blood lymphocytes, thyroid and spinal cord. Also expressed by melanocytes, dermal fibroblasts, dermal microvascular endothelial cells. Also detected in T-cells and in skin- derived Langerhans cells.

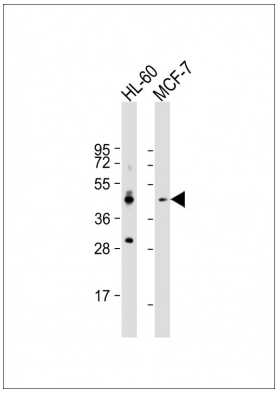
Background

Chemokines are a group of small (approximately 8 to 14 kD), mostly basic, structurally related molecules that regulate cell trafficking of various types of leukocytes through interactions with a subset of 7-transmembrane, G protein-coupled receptors. Chemokines also play fundamental roles in the development, homeostasis, and function of the immune system, and they have effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. Chemokines are divided into 2 major subfamilies, CXC and CC, based on the arrangement of the first 2 of the 4 conserved cysteine residues; the 2 cysteines are separated by a single amino acid in CXC chemokines and are adjacent in CC chemokines. CCR10 is the receptor for CCL27 (SCYA27; MIM 604833); CCR10-CCL27 interactions are involved in T cell-mediated skin inflammation (Homey et al., 2002 [PubMed 11821900]).

References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Fujimoto, S., et al. Cytokine 44(1):172-178(2008)
Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008)
Lambert, N.A. Sci Signal 1 (25), RE5 (2008) :
Wu, C., et al. Proteomics 7(11):1775-1785(2007)

Images



All lanes : Anti-CCR10 Antibody (N-term) at 1:1000 dilution Lane 1: HL-60 whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.