

Anti-GPR2/CCR10 Antibody

Catalog # ABO10810

Product Information

Application	WB
Primary Accession	P46092
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for C-C chemokine receptor type 10(CCR10) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	38416
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cell membrane; Multi-pass membrane protein.
Tissue Specificity	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. .
Source	Eukaryota
Protein Name	C-C chemokine receptor type 10(C-C CKR-10/CC-CKR-10/CCR-10)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GPR2/CCR10(312-327aa FLGLRFRQDLRRLLRG), different from the related rat and mouse sequences by one amino acid.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

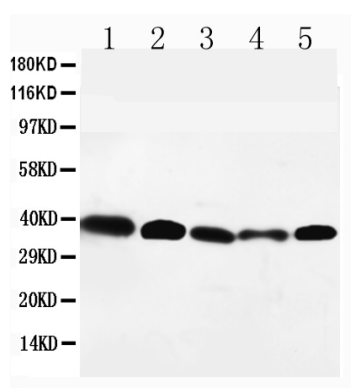
Protein Information

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

CCR10, C-C chemokine receptor type 10 is a protein that in humans is encoded by the CCR10 gene. CCR10 is constitutively expressed in skin melanocytes, fibroblasts, and microvascular endothelial cells, and that it is upregulated by IL1B and TNF. Expression was also detected in T cells, Langerhans cells, and peripheral blood mononuclear cells but not in dendritic cells. By fluorescence in situ hybridization, the GPR2 gene is mapped to 17q21.1-q21.3. CCR10 is the receptor for CCL27. CCR10-CCL27 interactions are involved in T cell-mediated skin inflammation. Expression of CCL27 in normal keratinocytes and its strong upregulation in skin lesions of atopic dermatitis, contact dermatitis, and psoriasis patients. CCR10+ T lymphocytes were detected in lesional but not normal skin of these patients. Flow cytometric analysis showed that CCL27 binds extracellular matrix components and dermal microvascular endothelial cells and fibroblasts and mediates adhesion and transendothelial migration of CCR10+ circulating leukocytes. CCR10 is predominantly expressed on CD4+CLA+(cutaneous lymphocyte antigen), rather than CD8+, circulating T cells. RT-PCR, confocal microscopy, and ELISA analysis indicated that keratinocytes exposed to TNF or IL1B but not to IL4 or IFNG in vitro express increased CCL27.

Images



Anti-GPR2/CCR10 antibody, ABO10810, Western blotting
 Lane 1: HELA Cell Lysate
 Lane 2: SW620 Cell Lysate
 Lane 3: A549 Cell Lysate
 Lane 4: MM231 Cell Lysate
 Lane 5: SMMC Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.