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CCR7 Antibody

Catalog # ASC11750

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	P32248
Other Accession	NP_001829, 4502641
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42874
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CCR7 antibody can be used for detection of CCR7 by Western blot at 1 - 2 g/ml. Antibody can also be used for Immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	1236
Other Names	C-C chemokine receptor type 7, C-C CKR-7, CC-CKR-7, CCR-7, BLR2, CDw197, Epstein-Barr virus-induced G-protein coupled receptor 1, EBI1, EBV-induced G-protein coupled receptor 1, MIP-3 beta receptor, CD197, CCR7, CMKBR7, EBI1, EVI1
Target/Specificity	CCR7; CCR7 antibody is human specific. CCR7 antibody is predicted to not cross-react with other CCR proteins.
Reconstitution & Storage	CCR7 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	CCR7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCR7
Synonyms	CMKBR7, EBI1, EVI1
Function	Receptor for the MIP-3-beta chemokine. Probable mediator of EBV effects on B-lymphocytes or of normal lymphocyte functions.
Cellular Location	Cell membrane; Multi-pass membrane protein.
Tissue Location	Expressed in various lymphoid tissues and activated B- and T-lymphocytes,

strongly up-regulated in B-cells infected with Epstein-Barr virus and T-cells infected with herpesvirus 6 or 7

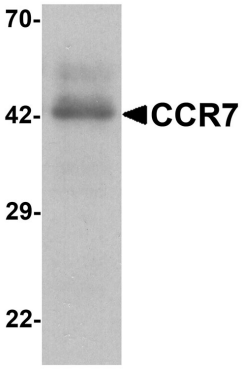
Background

The CCR7 protein is a member of the G protein-coupled receptor family. This receptor was identified as a gene induced by the Epstein-Barr virus (EBV), and is thought to be a mediator of EBV effects on B lymphocytes. This receptor is expressed in various lymphoid tissues and activates B and T lymphocytes. It has been shown to control the migration of memory T cells to inflamed tissues, as well as stimulate dendritic cell maturation (1,2). The chemokine (C-C motif) ligand 19 (CCL19) has been reported to be a specific ligand of this receptor (3).

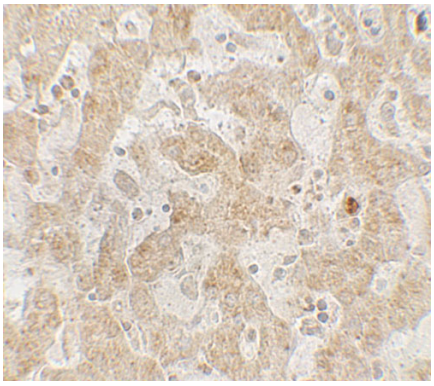
References

Birkenbach M, Josefsen K, Yalamanchil R, et al. Epstein-Barr virus-induced genes: first lymphocyte-specific G protein-coupled peptide receptors. J. Virol. 1993; 67:2209-20.
Forster R, Davalos-Misslitz AC, and Rot A. CCR7 and its ligands: balancing immunity and tolerance. Nat. Rev. Immunol. 2008; 8:362-71.
Yoshida R, Imai T, Hieshima K, et al. Molecular cloning of a novel human CC chemokine EBI1-ligand chemokine that is a specific functional ligand for EBI1, CCR7. J. Biol. Chem. 1997; 272:13803-9.

Images

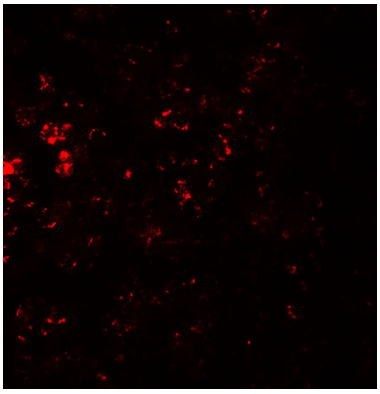


Western blot analysis of CCR7 in human spleen tissue lysate with CCR7 antibody at 1 µg/ml.



Immunohistochemistry of CCR7 in human spleen tissue with CCR7 antibody at 5 µg/mL.

Immunofluorescence of CCR7 in human spleen tissue with CCR7 antibody at 20 µg/mL.



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