

Anti-C-C chemokine receptor type 7 CCR7 Antibody

Catalog Number: A00390

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About CCR7

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).

Overview

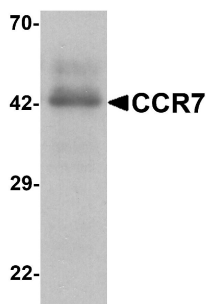
Product Name	Anti-C-C chemokine receptor type 7 CCR7 Antibody
Reactive Species	Human
Description	Boster Bio Anti-C-C chemokine receptor type 7 CCR7 Antibody (Catalog # A00390). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Conjugate	Biotin
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	CCR7 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CCR7 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit

Uniprot ID	P32248
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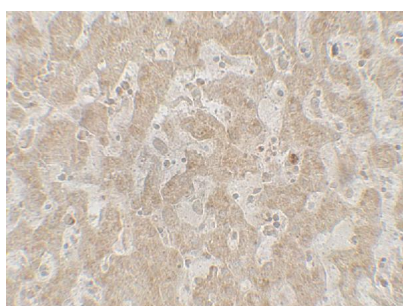
Technical Details

Immunogen	CCR7 antibody was raised against a 15 amino acid peptide near the center of human CCR7. The immunogen is located within amino acids 180 - 230 of CCR7.
Predicted Reactive Species	Bovine, Pig, Rat
Cross Reactivity	CCR7 antibody is human specific. CCR7 antibody is predicted to not cross-react with other CCR proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CCR7 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>CCR7 antibody can be used for detection of CCR7 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

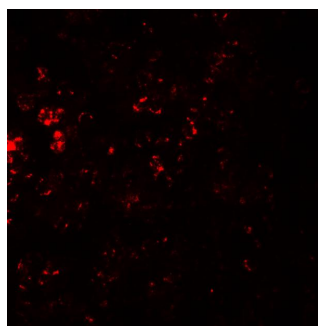
Anti-C-C chemokine receptor type 7 CCR7 Antibody (A00390) Images



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



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



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

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