



Anti-CCR7 (aa 2-22) polyclonal antibody (CPBT-66983GM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Goat anti Mouse CD197 antibody recognizes mouse C-C chemokine receptor type 7, also known as CD197, CCR7, Epstein-Barr virus-induced G-protein coupled receptor 1 or MIP-3 beta receptor. CD197 is a 378 amino acid ~43 kDa multi pass type III transmembrane glycoprotein and member of the G-protein coupled receptor 1 family (UniProt: P74447). CD197 is expressed by various lymphoid tissues, activated B and T cells, naive T cells, NK cells and dendritic cells (DCs), which acts a high-affinity receptor for the chemokines MIP-3beta (CCL19) and CCL21. Ligand binding of CD197 plays a vital role in the homing of naive T cells and antigen-loaded DCs into secondary organs. Expression of CD197 is strongly up-regulated in B cells infected with Epstein-Barr virus (EBV) and T cells infected with herpesvirus 6 or 7. Goat anti Mouse CD197 antibody can be used in research studies to distinguish between central memory and effector memory T cells and is reported as suitable for use in immunocytochemistry. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul. ELISA This product is suitable for use in indirect ELISA applications.

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| Specificity | CCR7 |
| Immunogen | Synthetic peptide DPGKPRKNVLVALLVIFQVC corresponding to amino acids 2-22 of mouse CD197. |
| Isotype | IgG |
| Source/Host | Goat |
| Species Reactivity | Mouse, Human |
| Conjugate | Unconjugated |
| Applications | ELISA; FC; FA; IHC-P; WB |
| Format | Purified IgG - liquid |

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| Size | 50 µg |
| Preservative | 0.1% Sodium Azide |
| Storage | in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |

GENE INFORMATION

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| Gene Name | Ccr7 chemokine (C-C motif) receptor 7 [Mus musculus (house mouse)] |
| Official Symbol | CCR7 |
| Synonyms | CCR7; chemokine (C-C motif) receptor 7; EBI1; CCR-7; CD197; Ebi1h; Cdw197; Cmkbr7; CC-CKR-7; C-C chemokine receptor type 7; MIP-3 beta receptor; chemokine (C-C) receptor 7; EBV-induced G-protein coupled receptor 1; epstein-Barr virus-induced G-protein cou |
| Entrez Gene ID | 12775 |
| Protein Refseq | NP_001288642 |
| UniProt ID | P74447 |
| Chromosome Location | 11 D; 11 |
| Pathway | Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; G alpha (i) signalling events; GPCR downstream signaling; |
| Function | C-C chemokine receptor activity; C-C motif chemokine 19 receptor activity; C-C motif chemokine 21 receptor activity; G-protein coupled receptor activity; chemokine (C-C motif) ligand 19 binding; chemokine (C-C motif) ligand 21 binding; chemokine receptor activity; protein binding; signal transducer activity; |