

Anti-CCRL2 [BZ2E3] Bulk Size Ab01034-7.1-BT

Isotype and Format: Rat IgG2a, Kappa

Clone Number: BZ2E3

Alternative Name(s) of Target: CCR11; C-C chemokine receptor-like 2; Chemokine receptor CCR11; CKRX; CRAM-A; CRAM-B; G-protein coupled beta chemokine receptor; L-CCR; Lipopolysaccharide-inducible C-C chemokine receptor

UniProt Accession Number of Target Protein: O35457

Published Application(s): functional assays, ICC, IP, WB, ELISA, FC, IHC

Published Species Reactivity: Mouse

Immunogen: This antibody was raised by immunising Wistar Furth rats with the mCCRL2 peptide/KLH conjugate. The immunizing amino-terminal mCCRL2 peptide with the sequence NH₂-MDNYTVAPDDEYDVLILDDYLDNSC-COOH, corresponding to residues 1-24 of mCCRL2, with a nonnative carboxyl-terminal cysteine to facilitate conjugation to keyhole limpet hemocyanin (KLH).

Specificity: This antibody is specific for murine CCRL2 (formerly known as L-CCR), which is expressed on mast cells, activated macrophages, and endothelial cells. This receptor binds the leukocyte chemoattractant chemerin without triggering classical GPCR signaling, providing a specific mechanism for local enrichment of chemerin at inflammatory sites. CCRL2 presents active chemerin to leukocytes expressing the chemoattractant receptor CMKLR1/Chemr23. Chemerin can block anti-CCRL2 antibody binding.

Application Notes: This antibody has been used in various FACS analyses, for instance, to confirm that it is only specific to mCCRL2-hemagglutinin (HA)/L1.2 transfectants and that peritoneal macrophages treated with LPS, TNF α , IFN- γ , or poly:IC up-regulate mCCRL2 protein expression (Zabel et al., 2008). Of note, this antibody binding to mouse peritoneal mast cells could be inhibited by chemerin, a protein ligand for signaling receptor CMKLR1 (Zabel et al., 2008). This anti-CCRL2 antibody can be used in wide variety of assays to study leukocytes and immune response. For example, this antibody has been used to examine the expression, regulation, and function of atypical chemerin receptor CCRL2 on endothelial cells (Monnier et al., 2012) and to delineate how the chemoattractant chemerin suppresses melanoma by recruiting natural killer cell antitumor defenses (Pachynski et al., 2012).

Antibody First Published in: Zabel et al. Mast cell-expressed orphan receptor CCRL2 binds chemerin and is required for optimal induction of IgE-mediated passive cutaneous anaphylaxis. J Exp Med. 2008 Sep 29;205(10):2207-20. [PMID:18794339](#)

Note on publication: Describe the original generation of the anti-mCCRL2 mAbs BZ5B8 and BZ2E3 and verification of their binding specificity for murine CCRL2 by an ELISA-based assay. The antibodies were then

used as part of the study which suggested that mast cell-expressed orphan receptor CCRL2 bound chemerin and was required for optimal induction of IgE-mediated passive cutaneous anaphylaxis.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.