

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR5 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse (rm) CCR1, rmCCR4, and rmCCR8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CCR5 Met1-Ala32, Ala92-Lys104, Thr169-Met200, Gln263-Gln279 (Ile11Ser, Ile97Val) Accession # P51682
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CCR5 (CC chemokine receptor 5; also CD195 and MIP-1α receptor) is a 41kDa (predicted) member of the G-protein coupled receptor #1 family of proteins. It is expressed on Treg T cells, NK cells, neurons, macrophages and Th1 T cells. CCR5 responds to RANTES, MIP-1α and -1β, and induces cell adhesion and migration. Mouse CCR5 is a 7-transmembrane glycoprotein 354 amino acids (aa) in length and it contains an O-glycosylated and sulfated extracellular N-terminus (aa 1-32), plus a phosphorylated and palmitoylated intracellular C-terminus (aa 304-354). In human and primates, CCR5 appears as a 62-64 kDa membrane form, possibly due to extensive posttranslational modification. CCR5 will form homodimers, heterodimers with CCR2, and heterooligomers with CCR2 and CXCR4. Over aa 1-32, 92-104, 169-200 and 263-279 collectively, mouse CCR5 shares 88% and 78% aa identity with rat and human CCR5, respectively.

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