

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CCR6 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 876515
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NSO mouse myeloma cell line transfected with rat CCR6 Met1-Met366 Accession # Q5BK58
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 human embryonic kidney cell line transfected with rat CCR6 and eGFP

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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CCR6 is an approximately 45 kDa G-protein linked seven transmembrane domain receptor that binds the chemokine CCL20/MIP-3α. Among hematopoietic cells, CCR6 is expressed on B cells, immature dendritic cells, neutrophils, and various T cell subsets (e.g. CD4⁺ T cells, regulatory T cells, effector memory Th17 cells, and g/d T cells). It is upregulated in several cancers, Alzheimer's brain, and the airways in obstructive pulmonary disease. CCR6 plays an important role in mucosal immunity, IgE mediated allergic reactions, immune cell infiltration into sites of inflammation, and tumor cell invasiveness. It also promotes chemotaxis and tumor angiogenesis in response to beta defensins. Rat CCR6 shares 74% and 87% amino acid sequence identity with human and mouse CCR6, respectively.

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