abcam

Product datasheet

FITC Anti-CCR5 antibody [HEK/1/85a] ab11466

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Overview

Product name	FITC Anti-CCR5 antibody [HEK/1/85a]
Description	FITC Rat monoclonal [HEK/1/85a] to CCR5
Host species	Rat
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Tissue, cells or virus corresponding to Human CCR5. CHO cells transfected with human CCR5 Database link: **P51681**
General notes	This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein G purified
Purification notes	Purification by affinity chromatography.
Clonality	Monoclonal
Clone number	HEK/1/85a
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11466 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
Flow Cyt	★★★☆☆ (5)	Use at an assay dependent concentration. **ab18446** - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Function Receptor for a number of inflammatory CC-chemokines including MIP-1-alpha, MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 R5 isolates.

Tissue specificity Highly expressed in spleen, thymus, in the myeloid cell line THP-1, in the promyeloblastic cell line KG-1A and on CD4+ and CD8+ T-cells. Medium levels in peripheral blood leukocytes and in small intestine. Low levels in ovary and lung.

Involvement in disease Genetic variation in CCR5 is associated with suseptibility to diabetes mellitus insulin-dependent type 22 (IDDM22) [MIM:612522]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical fetaures are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.

Sequence similarities Belongs to the G-protein coupled receptor 1 family.

Post-translational modifications Sulfated on at least 2 of the N-terminal tyrosines. Sulfation contributes to the efficiency of HIV-1 entry and is required for efficient binding of the chemokines, CCL3 and CCL4.
O-glycosylated, but not N-glycosylated. Ser-6 appears to be the major site. Also sialylated glycans present which contribute to chemokine binding. Thr-16 and Ser-17 may also be glycosylated and, if so, with small moieties such as a T-antigen.
Palmitoylation in the C-terminal is important for cell surface expression, and to a lesser extent, for HIV entry.
Phosphorylation on serine residues in the C-terminal is stimulated by binding CC chemokines especially by APO-RANTES.

Cellular localization Cell membrane.

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