



Rat Anti-Human CCR5 Monoclonal Antibody, clone HEK/1/85a/7a [Functional Grade] (CABT-Z656R)

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

PRODUCT INFORMATION

Product Overview	Low endotoxin level (≤ 1.0 EU/mg) monoclonal antibody recognizes recognizes an epitope on human CCR5. More Lower endotoxin level (≤ 0.5 EU/mg) antibody is also available.
Immunogen	CHO cells transfected with full-length human CD195 (CCR5).
Isotype	lgG2b, κ
Source/Host	Rat
Species Reactivity	Human
Clone	HEK/1/85a/7a
Purification	Protein A or G purified
Conjugate	Functional Grade
Applications	FC, ICC Recommended concentration: FC: ≤ 1 μg per 10^6 cells in a volume of 100 μl or 100μl of whole blood.
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein,

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potassium, calcium or preservatives added. Endotoxin Level ≤ 1.0 EU/mg as determined by the LAL method

Preservative	None
Storage	Functional grade biosimilar antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.
Ship	Wet ice

BACKGROUND

Introduction

CCR5 is expressed on memory T cells, macrophages, and immature dendritic cells (DCs). CCR5 is a 45 kDa seven-transmembrane G-protein-coupled receptor (GPCR). CCR5 is expressed on a subset of memory T cells, macrophages, and immature dendritic cells (DCs) and is upregulated by proinflammatory cytokines. CCR5 binds to inflammatory CC-chemokines, including CCL3 (macrophage inflammatory protein (MIP)-1 α), CCL4 (MIP-1 β), and RANTES, which increases intracellular calcium levels and results in cytoskeletal rearrangement and chemotactic cell migration. CCR5 is also the coreceptor for HIV-1 following binding of viral gp120 to CD4. The levels of CCR5 on cells influence the rate of entry of HIV-1, and patients with lower levels of CCR5 exhibit immunity against infection. CCR5 also contributes to other human diseases, including type I diabetes and cancer.

Keywords

CCR5; chemokine (C-C motif) receptor 5; C-C chemokine receptor type 5; AM4 7; C C chemokine receptor type 5; C C CKR 5

GENE INFORMATION

Gene Name	CCR5
Entrez Gene ID	<u>1234</u>
UniProt ID	<u>P51681</u>