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Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN CD195 (pSer349)

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-00448

Species:
Human

Isotype:
Mouse IgG1

Description

Human CD195 is a member of the G protein coupled superfamily of receptors, which acts as a receptor for a number of chemokines including RANTES and also serves as a co-receptor for the entry of HIV into cells. It plays a key role in regulating the activation and migration of leukocytes. CD195 is expressed by a subset of T lymphocytes and by monocytes. Recent studies have shown that upon ligand stimulation, CD195 is rapidly phosphorylated within the C-terminal domain.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			
Western Blotting	•			
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry	•			1/10-1/50
Immunofluorescence staining	•			1/10-1/50
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was Synthetic phospho peptide corresponding to the C-Terminal region of human CD195 conjugated to BSA. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G affinity chromatography.

Specificity

DS-MB-00448 is specific for human CD195, a cell surface antigen of approximately 40kD, also known as CCR5. This antibody has been demonstrated to exclusively recognise CD195 phosphorylated at Ser 349. It recognises a band of approximately 40kD on Western blots of RBL-CCR5 cell lysates .

Reconstitution

Supplied as 0.1 mg of purified liquid antibody. It is reconstituted with sterile PBS with pH 7.4, containing 0.09% Sodium Azide. Its final concentration is 1.0 mg/ml. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at +4oC or at -20oC if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Reference

1. Pollok-Kopp, B. et al. (2003) Analysis of ligand-stimulated CC chemokine receptor 5 (CCR5) phosphorylation in intact cells using phosphosite-specific antibodies. *J. Biol. Chem.* 278:2190-2198.
2. Signoret, N. et al. (2004) pH-independent endocytic cycling of the chemokine receptor CCR5. *Traffic.* 5(7):529-43

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