CD25 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD25, Monoclonal Antibody
Full Product Name	Mouse anti-Human CD25, PE-Cy5 Conjugated mAb
Product Gene Name	anti-CD25 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	4A7G7B6
Host	Mouse
Species Reactivity	Human
Form/Format	Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide
Preparation and Storage	Store at 4 degree C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL.
Molecular Weight	17,946 Da
3D Structure	ModBase 3D Structure for P25094
Experimental Methods	1.Take 100mul peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube; 2.Add 10mul labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light; 3.Add 2 ml1×RBC lysis buffer, incubate for 10 minutes away from light after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10×); 4.Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant; 5.Add 2 ml PBS wash buffer to resuspend the cells, then1000 rpm centrifugation for 5 minutes, discard the supernatant; 6.Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4 degree C then measured). [PBS wash buffer: PBS +1% FBS +0.1% NaN3] [Cell fixation: 2% formaldehyde solution]
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD25 antibody	Flow Cytometry (FC/FACS), Immunofluorescence (IF)
Related Product Information for anti-CD25 antibody	4A7G7B6 reacts with CD25 antigen, a chain of low-affinity interleukin-2 receptor (IL-2Ra), which is expressed on activated cells including T, B, NK cells and monocytes. The antigen also prsent on subset of thymocytes, HTLV-1 transformed T cell lines, EBV transformed B cells, myeloid precursors and oligodendrocytes. The high affinity IL-2 receptor is formed by the noncovalent association of of a (55 kDa, CD25), b (75 kDa, CD122), and g subunit (70 kDa, CD132). The interaction of IL-2 with IL-2R induces the activation and proliferation of T, B, NK cells and macrophages. CD4+/CD25+ cells might directly regulate the function of responsive T cells.
Product References and Citations for anti-CD25 antibody	1. Kishimoto, T. et al. (1998). Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing, Inc. London. 2. Robb RJ. et al. (1984). J. Exp. Med 160:1126. 3. Greene WC and Leonard WJ et al. (1986). Annu. Rev. Immunol. 4:69. 4. Ng WFet al. (2001). Leukemia 98: 2736.
Other Notes	Small volumes of anti-CD25 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD25 purchase	MBS8502338 is an antibody targeting CD25. Also known as Mouse anti-Human CD25, PE-Cy5 Conjugated mAb. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD25. It may not necessarily be applicable to this product.

NCBI GI #	55904
NCBI Accession #	CAA44297.1
UniProt Primary Accession #	P25094
NCBI Official Full Name	CD25
UniProt Protein Name	Peripheral myelin protein 22
UniProt Synonym Protein Names	Protein CD25; SR13 myelin protein; Schwann cell membrane glycoprotein; SAG
Protein Family	Interleukin-2 receptor
UniProt Gene Name	Pmp22
UniProt Synonym Gene Names	Cd25; Pmp-22; PMP-22; SAG
UniProt Comments for CD25	Might be involved in growth regulation, and in myelinization in the peripheral nervous system.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/cd25/8502338