CD122 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD122, Monoclonal Antibody
Full Product Name	Anti-Mouse CD122 Monoclonal Antibody (Biotin Conjugated)
Product Gene Name	anti-CD122 antibody
Product Synonym Names	Mouse CD122; Interleukin-2 receptor subunit beta; Il2rb; IL-2 receptor subunit beta; IL-2R subunit beta; IL-2RB; High affinity IL-2 receptor subunit beta; p70-75; CD122
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	5H4
Host	Rat
Species Reactivity	Mouse
Form/Format	Liquid; PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2-8 degree C. Protected from prolonged exposure to light.
Matching Pairs	Antibody: CD122 (MBS2553796) Isotype Control: IgG2a Clone #2A3 (MBS2557853)
Molecular Weight	60,539 Da
3D Structure	ModBase 3D Structure for P16297
Conjugation	Biotin
Cellular Localization	Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD122 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD122 antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is <=0.5 ug per 10e6 cells in 100 ul volume or 100 ul of whole blood.
Related Product Information for anti-CD122 antibody	CD122 is a 70-75 kD IL-2 receptor beta chain also known as IL-2Rbeta, which is also shared by the IL-15 receptor. It is constitutively expressed by NK cells and at lower levels by T cells, B cells, monocytes, and macrophages. The IL-2Rbeta chain can combine with either the common gamma subunit (gammac, CD132) alone or with the gammac subunit and the IL-2Ralpha subunit (CD25) to generate intermediate or high affinity IL-2 receptor complexes, respectively. CD122 expression levels can be upregulated by activation. The 5H4 antibody does not block IL-2 binding to the IL-2 receptor. CD122 is expressed on murine, but not human, CD8+ Tregs involved in the maintenance of T cell homeostasis.
Product References and Citations for anti-CD122 antibody	1. Barclay A, et al. 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Minami Y, et al. 1993. Annu. Rev. Immunol. 11:245. 3. Suzuki H, et al. 1995. Science 268:1472. 4. Shi Z, et al. 2009. Eur. J. Immunol. 39:2109.
Other Notes	Small volumes of anti-CD122 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 CD122 purchase	MBS2553796 is an antibody targeting CD122. Also known as Anti-Mouse CD122 Monoclonal Antibody (Biotin Conjugated). Reactive in Mouse. Host: Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD122. It may not necessarily be applicable to this product.

NCBI GeneID	16185
NCBI Accession #	NP_032394.1
UniProt Primary Accession #	P16297
UniProt Secondary Accession #	Q3TZT2
UniProt Protein Name	Interleukin-2 receptor subunit beta
UniProt Synonym Protein Names	High affinity IL-2 receptor subunit beta; p70-75; CD_antigen: CD122
Protein Family	Interleukin-2 receptor
UniProt Gene Name	Il2rb
UniProt Synonym Gene Names	IL-2 receptor subunit beta; IL-2R subunit beta; IL-2RB
UniProt Comments for CD122	Receptor for interleukin-2. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2.
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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