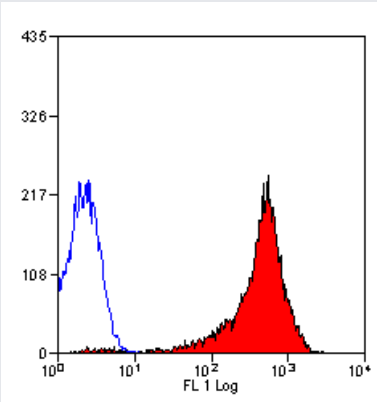
CD90 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD90, Monoclonal Antibody
Full Product Name	MOUSE ANTI MOUSE CD90
Product Gene Name	anti-CD90 antibody
Clonality	Monoclonal
Isotype	IgM
Clone Number	F7D5
Host	Mouse
Form/Format	Purified IgM fraction - liquid
Concentration	IgM concentration 1.0 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	18,080 Da
3D Structure	ModBase 3D Structure for P01831
Perservative Stabilisers	0.09% Sodium Azide Preparation||IgM fraction prepared by ammonium sulphate precipitation
Fusion Partners	Spleen cells from immunised AKR mice were fused with cells of the mouse NS-1 myeloma cell line. Buffer Solution||Phosphate buffered saline
Target Species	Mouse
Applications Tested/Suitable for anti-CD90 antibody	Cytotoxic Assays (CT), Flow cytometry (FC/FACS)
Application Notes for anti-CD90 antibody	**Flow Cytometry:** Minimum Dilution: 1/10; Maximum Dilution: 1/25
Related Product Information for anti-CD90 antibody	Mouse anti Mouse CD90 antibody, clone F7D5 recognizes the mouse Thy1.2 alloantigen, expressed by thymocytes and peripheral T lymphocytes. Clone F7D5 reacts with Thy1.2 mice such as CBA and BALB/C, but not with Thy1.1 mice eg. AKR and FUB. The antibody is particularly useful for removal of T lymphocytes from cell populations by complement mediated cytotoxicity (Lake, P et al.). Mouse anti Mouse CD90 antibody, clone F7D5 is routinely tested in flow cytometry using mouse thymocytes.
Other Notes	Small volumes of anti-CD90 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 CD90 purchase	MBS214724 is an antibody targeting CD90. Also known as MOUSE ANTI MOUSE CD90. Host: Mouse.



Testing Data of anti-CD90 antibody
Staining of mouse thymus cells with Mouse anti Mouse CD90 (Thy 1.2) (MBS211988)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD90. It may not necessarily be applicable to this product.

NCBI GI #	6678347
NCBI GeneID	21838
NCBI Accession #	NP_033408.1
UniProt Primary Accession #	P01831
UniProt Related Accession #	P01831
GenBank Nucleotide #	NM_009382.3
NCBI Official Full Name	thy-1 membrane glycoprotein preproprotein
NCBI Official Synonym Full Names	thymus cell antigen 1, theta
NCBI Official Symbol	Thy1
NCBI Official Synonym Symbols	T25; CD90; Thy-1; Thy1.1; Thy1.2; Thy-1.2
UniProt Protein Name	Thy-1 membrane glycoprotein
UniProt Synonym Protein Names	Thy-1 antigen; CD_antigen: CD90
Protein Family	Thy-1 membrane glycoprotein
UniProt Gene Name	Thy1
UniProt Synonym Gene Names	Thy-1
UniProt Entry Name	THY1_MOUSE
NCBI Protein Information	thy-1 membrane glycoprotein; Thy 1.2; thy-1 antigen
NCBI Summary for CD90	This gene encodes a glycoprotein that is anchored to the cell surface of thymocytes, neuronal and other cells through a glycosyl-phosphatidylinositol moiety. A soluble form of the encoded protein has also been detected in serum and cerebrospinal fluid. The encoded protein undergoes further processing to generate the mature protein which mediates cell-cell interactions to trigger downstream signaling pathways. [provided by RefSeq, Jul 2015]

UniProt Comments for CD90	THY1: May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain. Protein type: Membrane protein, GPI anchor; Motility/polarity/chemotaxis; Cell adhesion Cellular Component: cell surface; focal adhesion; endoplasmic reticulum; dendrite; cytosol; lipid raft; anchored to external side of plasma membrane; growth cone; anchored to plasma membrane; membrane; apical plasma membrane; plasma membrane; myelin sheath; external side of plasma membrane Molecular Function: integrin binding; enzyme binding; protein kinase binding Biological Process: focal adhesion formation; negative regulation of T cell receptor signaling pathway; cytoskeleton organization and biogenesis; T cell receptor signaling pathway; cell-cell adhesion; retinal cone cell development; negative regulation of protein kinase activity; negative regulation of axonogenesis; positive regulation of release of sequestered calcium ion into cytosol; angiogenesis; positive regulation of T cell activation; negative regulation of cell migration; positive regulation of GTPase activity
Research Articles on CD90	**1.** TLR4 activation enhances the PD-L1-mediated tolerogenic capacity of colonic CD90+ stromal cells.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-antibody/cd90/214724