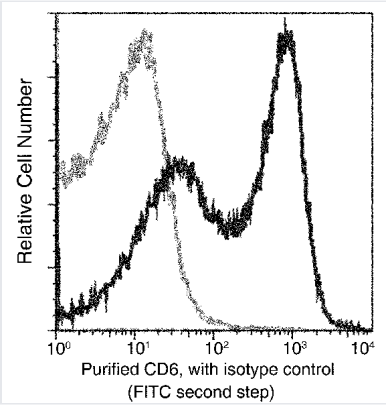
CD6 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD6, Monoclonal Antibody
Full Product Name	Anti-CD6 Antibody, Mouse Monoclonal
Product Gene Name	anti-CD6 antibody
Product Synonym Names	CD6/Cluster of Differentiation 6 Antibody, Mouse MAb; CD6 molecule
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Number	01
Host	Mouse
Species Reactivity	Rat
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Rat CD6/Cluster of Differentiation 6
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
3D Structure	ModBase 3D Structure for Q812A4
Immunogen	Recombinant Rat CD6/Cluster of Differentiation 6 Protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Rat CD6/Cluster of Differentiation 6 (rR CD6/Cluster of Differentiation 6). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Product Categories/Family for anti-CD6 antibody	ITIM/ITAM Immunoreceptors and Related Molecules
Applications Tested/Suitable for anti-CD6 antibody	Flow Cytometry (FC/FACS/FCM)
Application Notes for anti-CD6 antibody	FC/FACS/FCM: 1:25-1:100
Related Product Information for anti-CD6 antibody	T-cell differentiation antigen CD6, also known as TP12 and CD6, is a single-pass type I membrane protein which contains threeSRCR domains. CD6/TP12 is a cell surface glycoprotein expressed primarily on T cells, it may function as a costimulatory molecule and may play a role in autoreactive immune responses. CD6/TP12 is expressed by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain. CD6 ligand termed CD166 (previously known as activated leukocyte cell adhesion molecule, ALCAM) has been identified and shown to be expressed on activated T cells, B cells, thymic epithelium, keratinocytes, and in rheumatoid arthritis synovial tissue. CD6/TP12 binds to activated leukocyte cell adhesion molecule (CD166), and is considered as a costimulatory molecule involved in lymphocyte activation and thymocyte development. CD6/TP12 partially associates with the TCR/CD3 complex and colocalizes with it at the center of the mature immunological synapse (IS) on T lymphocytes. During thymic development CD6-dependent signals may contribute both to thymocyte survival, and to the overall functional avidity of selection in both man and mouse.
Product References and Citations for anti-CD6 antibody	Joo YS. et al., 2000, Arthritis Rheum. 43 (2): 329-35. Singer NG. et al., 2002, Int Immunol. 14 (6): 585-97. Gimferrer I. et al., 2005, J Immunol. 175 (3): 1406-14. Alonso R. et al., 2010, J Autoimmun. 35 (4): 336-41.

Other Notes	Small volumes of anti-CD6 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 CD6 purchase	MBS8112930 is an antibody targeting CD6. Also known as Anti-CD6 Antibody, Mouse Monoclonal. Reactive in Rat. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD6 antibody
Flow cytometric analysis of Rat CD6 expression on SD rat splenocytes. Cells were stained with purified anti-Rat CD6, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD6. It may not necessarily be applicable to this product.

NCBI GI #	77539059
NCBI GeneID	25752
NCBI Accession #	NP_783167.2
UniProt Primary Accession #	Q812A4
GenBank Nucleotide #	NM_175577.3
NCBI Official Full Name	T-cell differentiation antigen CD6
NCBI Official Synonym Full Names	Cd6 molecule
NCBI Official Symbol	Cd6
NCBI Official Synonym Symbols	OX52
UniProt Protein Name	CD6 antigen
UniProt Synonym Protein Names	CD6 antigen
Protein Family	T-cell differentiation antigen
UniProt Gene Name	Cd6
UniProt Entry Name	Q812A4_RAT
NCBI Protein Information	T-cell differentiation antigen CD6
NCBI Summary for CD6	cell surface molecule found on T lymphocytes that may regulate CD5 tyrosine phosphorylation; associates with CD5, Lck, Fyn, ZAP-70 and Itk [RGD, Feb 2006]
Research Articles on CD6	**1.** CD6 is a signaling attenuator whose expression alone, i.e. in the absence of ligand engagement, is sufficient to restrain signaling in T cells.

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