CD28 Antibody – Hamster Monoclonal

PRODUCT OVERVIEW

Product Name	CD28, Monoclonal Antibody
Full Product Name	CD28 antibody (Allophycocyanin)
Product Gene Name	anti-CD28 antibody
Product Synonym Names	Monoclonal CD28; Anti-CD28; CD28; CD-28; CD 28
Clonality	Monoclonal
Isotype	IgG
Clone Number	37.51
Host	Hamster
Species Reactivity	Murine
Form/Format	Supplied as a liquid in PBS, with NaN3 added as preservative.
Concentration	0.1 mg/ml (lot specific)
Specificity	Murine
Preparation and Storage	Store at 4 degree C.
Molecular Weight	25,243 Da
3D Structure	ModBase 3D Structure for P31041
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Tag/Conjugate	Allophycocyanin
Immunogen	CD28 antibody (Allophycocyanin) was raised in hamster using CD28 costimulatory receptor as the immunogen.
Product Categories/Family for anti-CD28 antibody	Immunology; Conjugated Monoclonal Antibodies
Applications Tested/Suitable for anti-CD28 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD28 antibody	MBS532237 is an antibody targeting CD28. Also known as CD28 antibody (Allophycocyanin). Reactive in Murine. Host: Hamster. Hamster monoclonal CD28 antibody (Allophycocyanin)
Other Notes	Small volumes of anti-CD28 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD28. It may not necessarily be applicable to this product.

NCBI GI #	192485
NCBI GeneID	12487
NCBI Accession #	AAA37396.1

UniProt Primary Accession #	P31041
UniProt Secondary Accession #	Q6GSH7
UniProt Related Accession #	P31041
NCBI Official Full Name	CD28, partial
NCBI Official Synonym Full Names	CD28 antigen
NCBI Official Symbol	Cd28
UniProt Protein Name	T-cell-specific surface glycoprotein CD28
UniProt Synonym Protein Names	CD_antigen: CD28
Protein Family	T-cell-specific surface glycoprotein
UniProt Gene Name	Cd28
UniProt Entry Name	CD28_MOUSE
NCBI Protein Information	T-cell-specific surface glycoprotein CD28
UniProt Comments for CD28	CD28: a type I plasma membrane protein Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. Binds to B7-1 and -2. Expressed in T cells and plasma cells, but not in less mature B cells. Six splice-variant isoforms have been described. Protein type: Cell surface; Membrane protein, integral Cellular Component: membrane; plasma membrane; integral to membrane; immunological synapse; lipid raft; external side of plasma membrane Molecular Function: protein homodimerization activity; SH3/SH2 adaptor activity; protease binding Biological Process: positive regulation of isotype switching to IgG isotypes; T cell activation; positive regulation of mitosis; positive regulation of interleukin-2 biosynthetic process; negative thymic T cell selection; T cell receptor signaling pathway; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of inflammatory response to antigenic stimulus; positive regulation of protein kinase B signaling cascade; T cell costimulation; positive regulation of alpha-beta T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of T cell proliferation; immune response; regulatory T cell differentiation
Research Articles on CD28	**1.** Data show that calcium-promoted Ras inactivator (CAPRI) C2AB domains are required for CD28 antigen inhibition of adhesion.
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