CD28 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD28, Monoclonal Antibody
Full Product Name	CD28 (AP)
Product Gene Name	anti-CD28 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2Q1294
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase.
Purity/Purification	Purified by ion exchange chromatography following ammonium sulfate precipitation.
Specificity	Recognizes the 44kD antigen found on a sub-population of T-cells and activated B cells. These CD28+ CD8 cells are now known to be cytotoxic T-cell precursors. Will induce the proliferationof resting T lymphocytes. Does not react with B cells, granulocytes or monocytes. Does not crossreact with canine.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	25,066 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (204571198..204603635). Location: 2q33
OMIM	186760
3D Structure	ModBase 3D Structure for P10747
Immunogen	Human T lymphocytes
Conjugate	AP
Product Categories/Family for anti-CD28 antibody	Antibodies; CD Markers
Related Product Information for anti-CD28 antibody	MBS6241907 is an antibody targeting CD28. Also known as CD28 (AP). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD28 antibody	1. Leucocyte Typing IV, Oxford University Press (1989) 2. Leucocyte Typing III, Oxford University Press (1987) 3. Lier, R. A. van, et al. Eur. J. Immunol. 18, 167 1988)
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 #	340545508
NCBI GeneID	940
NCBI Accession #	NP_001230006.1

UniProt Primary Accession #	P10747
UniProt Secondary Accession #	Q13964; Q52M23; Q8NI54; Q8NI55; Q8NI56; Q8WXJ2; Q9BYV0; A8KAC1
UniProt Related Accession #	P10747
GenBank Nucleotide #	NM_006139.1
NCBI Official Full Name	T-cell-specific surface glycoprotein CD28 isoform 2
NCBI Official Synonym Full Names	CD28 molecule
NCBI Official Symbol	CD28
NCBI Official Synonym Symbols	Tp44
UniProt Protein Name	T-cell-specific surface glycoprotein CD28
UniProt Synonym Protein Names	TP44
Protein Family	T-cell-specific surface glycoprotein
UniProt Gene Name	CD28
UniProt Entry Name	CD28_HUMAN
NCBI Protein Information	T-cell-specific surface glycoprotein CD28; CD28 antigen
NCBI Summary for CD28	The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]
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 Chromosomal Location of Human Ortholog: 2q33 Cellular Component: integral to plasma membrane; plasma membrane; immunological synapse; cytosol; external side of plasma membrane Molecular Function: identical protein binding; protein binding; SH3/SH2 adaptor activity; protease binding; coreceptor activity Biological Process: positive regulation of isotype switching to IgG isotypes; positive regulation of translation; nerve growth factor receptor signaling pathway; viral reproduction; positive regulation of interleukin-2 biosynthetic process; cytokine biosynthetic process; T cell receptor signaling pathway; positive regulation of inflammatory response to antigenic stimulus; cell surface receptor linked signal transduction; positive regulation of T cell proliferation; regulatory T cell differentiation; epidermal growth factor receptor signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; positive regulation of viral genome replication; positive regulation of mitosis; negative thymic T cell selection; regulation of defense response to virus by virus; humoral immune response; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of protein kinase B signaling cascade; T cell costimulation; innate immune response; positive regulation of alpha-beta T cell proliferation; positive regulation of transcription from RNA polymerase II promoter
Research Articles on CD28	**1.** Results showed that serum sCTLA-4, sCD28, and CD80 but not CD86 concentrations in all RA patients were significantly higher than concentrations in healthy control subjects.
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-human-antibody/cd28/6241907