Cluster of Differentiation 3d (CD3d) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Cluster Of Differentiation 3d (CD3d), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Cluster Of Differentiation 3d (CD3d)
Product Gene Name	anti-CD3d antibody
Product Synonym Names	CD3d/Cluster Of Differentiation 3d; CD3DELTA; T3D; TDell Surface Glycoprotein CD3 Delta Chain; Tcell receptor T3 delta chain
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	C13
Host	Mouse
Species Reactivity	Human, Pig
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against CD3d. It has been selected for its ability to recognize CD3d in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) APC-CY7 Conjugated Antibody: CD3d Clone #C13 (MBS2134132)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) PE Conjugated Antibody: CD3d Clone #C13 (MBS2134133)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) APC Conjugated Antibody: CD3d Clone #C13 (MBS2134134)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) Cy3 Conjugated Antibody: CD3d Clone #C13 (MBS2134135)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) Biotin Conjugated Antibody: CD3d Clone #C13 (MBS2134136)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) FITC Conjugated Antibody: CD3d Clone #C13 (MBS2134137)
Matching Pairs	Unconjugated Antibody: CD3d Clone #C13 (MBS2139042) HRP Conjugated Antibody: CD3d Clone #C13 (MBS2134138)
Molecular Weight	171
OMIM	phenotype 615617
3D Structure	ModBase 3D Structure for P04234

Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Gln18~Ile113
Conjugation	Unconjugated
Product Categories/Family for anti-CD3d antibody	Signal transduction; CD & Adhesion molecule; Tumor immunity; Infection immunity; Immune molecule; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CD3d antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-CD3d antibody	WB: 0.53ug/mL IHC: 530ug/mL ICC: 530ug/mL
Related Product Information for anti-CD3d antibody	MBS2139042 is an antibody targeting CD3d. Also known as Monoclonal Antibody to Cluster Of Differentiation 3d (CD3d). Reactive in Human, Pig. Host: Mouse.
Other Notes	Small volumes of anti-CD3d 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 CD3d. It may not necessarily be applicable to this product.

NCBI GI #	115985
NCBI GeneID	915
NCBI Accession #	P04234.1
UniProt Primary Accession #	P04234
UniProt Secondary Accession #	A8MVP6
UniProt Related Accession #	P04234
NCBI Official Full Name	T-cell surface glycoprotein CD3 delta chain
NCBI Official Synonym Full Names	CD3d molecule, delta (CD3-TCR complex)
NCBI Official Symbol	CD3D
NCBI Official Synonym Symbols	T3D; IMD19; CD3-DELTA
UniProt Protein Name	T-cell surface glycoprotein CD3 delta chain
UniProt Synonym Protein Names	T-cell receptor T3 delta chain; CD_antigen: CD3d
Protein Family	T-cell surface glycoprotein
UniProt Gene Name	CD3D
UniProt Synonym Gene Names	T3D
UniProt Entry Name	CD3D_HUMAN
NCBI Protein Information	T-cell surface glycoprotein CD3 delta chain; OKT3, delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta polypeptide (TiT3 complex)

NCBI Summary for CD3d	The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length natures of their transcripts has yet to be defined. [provided by RefSeq, Feb 2009]
UniProt Comments for CD3d	CD3D: a T cell surface glycoprotein that is a component of the T cell antigen receptor. A defect in this protein causes a severe combined immunodeficiency characterized by the absence of T cells but normal B cells. Contains 1 ITAM domain. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 11q23 Cellular Component: T cell receptor complex; cytoplasm; plasma membrane; integral to membrane; alpha-beta T cell receptor complex Molecular Function: transmembrane receptor activity; protein heterodimerization activity; transcription coactivator activity Biological Process: regulation of immune response; cell surface receptor linked signal transduction; T cell costimulation; positive regulation of transcription from RNA polymerase II promoter; T cell receptor signaling pathway; T cell differentiation; positive thymic T cell selection Disease: Immunodeficiency 19
Research Articles on CD3d	**1.** Two cases of SCID with CD3delta gene mutation in Mexican Mennonite infants are described.
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