

Mouse anti-Human CD3D Monoclonal Antibody | anti-CD3D antibody

Anti-CD3D Antibody, Mouse Monoclonal

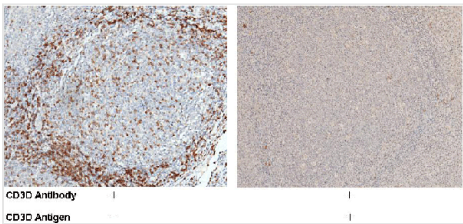
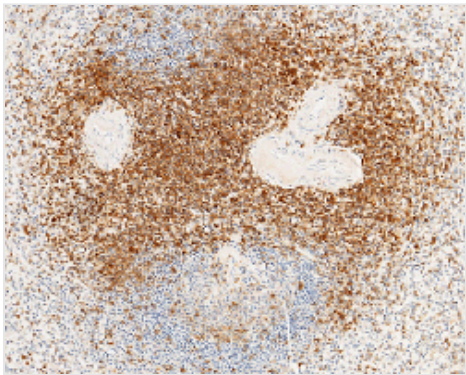
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255274	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

CD3D; Monoclonal Antibody; Anti-CD3D Antibody; Mouse Monoclonal; CD3d/CD3 delta Antibody; Mouse MAb; CD3d molecule; delta (CD3-TCR complex); Anti-CD3 delta Antibody; Anti-CD3-DELTA Antibody; Anti-IMD19 Antibody; Anti-T3D Antibody; anti-CD3D antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	6B1C12F3
Specificity	Human CD3d/CD3 delta
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD3D antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Human CD3d/CD3 delta 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 Human CD3d/CD3 delta (rh CD3d/CD3 delta). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
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.



IHC (Immunohistochemistry)
Immunochemical staining of human CD3D in human tonsil with mouse Mab (1:60, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of T cells. The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).

IHC (Immunohistochemistry)
Immunochemical staining of human CD3D in human spleen with mouse Mab (1:60, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of T cells.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3D antibody	T-cell surface glycoprotein CD3 delta chain, also known as CD3D, is a single-pass type I membrane protein. CD3D, together with CD3-gamma, CD3-epsilon and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. The majority of T cell receptor (TCR) complexes in mice and humans consist of a heterodimer of polymorphic TCRalpha and beta chains along with invariant CD3gamma, delta, epsilon, and zeta chains. CD3 chains are present as CD3gammaepsilon, deltaepsilon, and zetazeta dimers in the receptor complex and play critical roles in the antigen receptor assembly, transport to the cell surface, and the receptor-mediated signal transduction. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. The T cell receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based activation motifs (ITAMs). CD3D contains 1 ITAM domain and has been shown to interact with CD8A. In the mouse, knockout of CD3delta allows some degree of T lymphocyte differentiation since mature CD4 and CD8 as well as TCRgammadelta T lymphocytes are observed in the periphery. In contrast, deleterious mutation of the CD3delta encoding gene in the human leads to a severe combined immunodeficiency characterised by the complete absence of mature T cell subpopulations including TCRalpha/beta and TCRgamma/delta. Defects in CD3D cause severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T-/B+/NK+ SCID) which is a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. In humans the absence of CD3 delta results in a complete arrest in thymocyte development at the stage of double negative to double positive transition and the development of gamma delta T-cell receptor-positive T cells is also impaired.
Product Categories/Family for anti-CD3D antibody	T Cell Receptor Signaling Pathway
References	Roifman CM. (2004) CD3 delta immunodeficiency. Curr Opin Allergy Clin Immunol. 4(6): 479-84. Pan Q, et al. (2006) Different role for mouse and human CD3delta/epsilon heterodimer in preT cell receptor (preTCR) function: human CD3delta/epsilon heterodimer restores the defective preTCR function in CD3gamma-and CD3gammadelta-deficient mice. Mol Immunol. 43(11): 1741-50. Le Deist F, et al. (2007) Expression anomalies of the CD3-TCR complex expression and immunodeficiencies. Med Sci (Paris). 23(2): 161-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502669
NCBI GeneID	915
NCBI Accession #	NP_000723.1
NCBI GenBank Nucleotide #	NM_000732.4
Molecular Weight	14,484 Da

NCBI Official Full Name	T-cell surface glycoprotein CD3 delta chain isoform A
NCBI Official Synonym Full Names	CD3d molecule
NCBI Official Symbol	CD3D
NCBI Official Synonym Symbols	T3D; IMD19; CD3-DELTA
NCBI Protein Information	T-cell surface glycoprotein CD3 delta chain

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd3d-antibody-clone-6b1c12f3-immunohistochemistry-elisa/255274>