

CD3

Rabbit Monoclonal antibody(Mab)
Catalog # AD80004

Product Information

Application	IHC-P
Primary Accession	P04234
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Clone Names	230B2F6
Calculated MW	18930

Additional Information

Gene ID	915
Gene Name	CD3D
Other Names	T-cell surface glycoprotein CD3 delta chain, T-cell receptor T3 delta chain, CD3d, CD3D, T3D
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.
Precautions	CD3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD3D
Synonyms	T3D
Function	Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR- mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD247/CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed: 2470098). In addition of this role of signal transduction in T- cell activation, CD3D plays an essential role in thymocyte differentiation. Indeed, participates in correct intracellular TCR-CD3 complex assembly and surface expression. In absence of a functional TCR-CD3 complex, thymocytes are unable to differentiate properly. Interacts with CD4 and CD8 and thus serves to establish a functional link between the TCR and coreceptors CD4 and CD8, which is needed for activation and positive selection of CD4 or CD8 T-cells

(PubMed:[12215456](https://pubmed.ncbi.nlm.nih.gov/12215456/)).

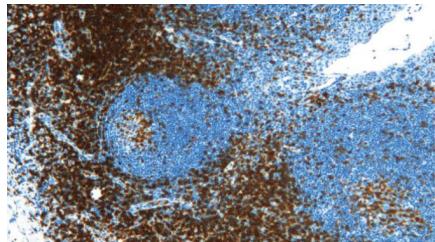
Cellular Location

Tissue Location

Cell membrane; Single-pass type I membrane protein

CD3D is mostly present on T-lymphocytes with its TCR-CD3 partners. Present also in fetal NK-cells

Images



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.