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## Datasheet for ABIN6260618 anti-CD3D antibody (Internal Region)

2 Images



#### Overview

Quantity:	100 µL
Target:	CD3D
Binding Specificity:	Internal Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD3D antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)

## Product Details

Immunogen:	A synthesized peptide derived from human CD3D, corresponding to a region within the internal amino acids.
Isotype:	lgG
Specificity:	CD3D Antibody detects endogenous levels of total CD3D.
Predicted Reactivity:	Bovine,Horse,Sheep
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

## Target Details

J	
Target:	CD3D
	Order at www.antibodies-online.com   www.antikoerper-online.de   www.anticorps-enligne.fr   www.antibodies-online.cn

International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6260618 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

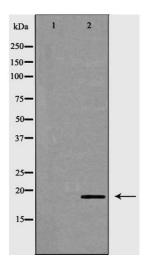
Target Details	
Alternative Name:	CD3D (CD3D Products)
Background:	Description: Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an
	essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-
	cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the
	CD3 chains CD3D, CD3E, CD3G and 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).
	Gene: CD3D
Molecular Weight:	19kDa
Gene ID:	915
UniProt:	P04234
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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### Handling

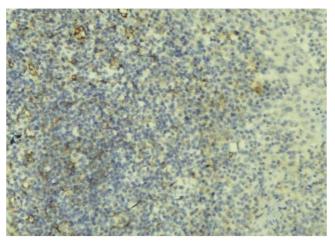
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### Images



#### Western Blotting

**Image 1.** Western blot analysis of Jurkat using CD3D antibody. The lane on the left is treated with the antigenspecific peptide.



#### Immunohistochemistry

**Image 2.** ABIN6276638 at 1/100 staining Human lymph tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at  $22_i$ aC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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