

Rat CD3 Monoclonal Antibody | anti-CD3 antibody

RAT ANTI HUMAN CD3

CATALOG #	HOST	APPLICATIONS
AAA49787	Rat	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

CD3; Monoclonal Antibody; RAT ANTI HUMAN CD3; anti-CD3 antibody

PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	CD3-12
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	207
Applicable Applications for anti-CD3 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Perservative Stabilisers	0.09% Sodium Azide Preparation
Histology Positive Control Tissue	Tonsil Buffer Solution
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD3 . Permeabilised with Leucoperm



Application Data

Formalin fixed, paraffin embedded human tonsil stained with Rat anti Human CD3 following heat mediated antigen retrieval in EDTA buffer pH9.0



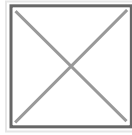
Application Data

ELISA analysis of human CD3 expression using Rat anti Human CD3ε, clone CD3-12 as a capture reagent and biotinylated Mouse anti Human CD3, clone UCHT1 as a detection reagent with recombinant human CD3 as antigen to produce the standard curve. Detection is by HRP conjugated streptavidin and substrate. Microtitre plate is read at O.D. 450 nm on the iMark Microplate Absorbance Reader . A serum (green) sample is included undiluted



Application Data

Staining of human peripheral blood lymphocytes with Rat anti Human CD3 following permeabilisation with Leucoperm



Application Data

Western blot analysis of Jurkat human acute T-cell leukemia whole cell lysate probed with Mouse anti Human CD3 antibody followed by HRP conjugated Goat anti Mouse IgG, visualized by chemiluminescence

ADDITIONAL INFORMATION

Related Product Information for anti-CD3 antibody

Rat anti Human CD3, clone CD3-12 raised against a peptide representing an invariant cytoplasmic sequence within the CD3 ϵ chain recognizes human CD3 ϵ . CD3 is a multimeric protein complex composed of four distinct polypeptide chains (ϵ , gamma, delta, δ) that assemble and function as three pairs of dimers (ϵ gamma, δ delta, δ δ). The CD3 complex serves as a T cell co-receptor that associates non-covalently with the T cell receptor (TCR) (Malissen 2008; Guy and Vignali 2009; Smith-Garvin et al. 2009). CD3 is a defining feature of cells belonging to the T cell lineage and can therefore be used as T cell marker. As Rat anti Human CD3, clone CD3-12 has been specifically raised against an epitope within the epsilon peptide chain, highly conserved among species clone CD3-12 has a very broad species crossreactivity for the CD3 marker. (Jones et al. 1993; Kothlow et al. 2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502671
NCBI GeneID	916
NCBI Accession #	NP_000724.1
NCBI GenBank Nucleotide #	NM_000733.3
UniProt Accession #	P07766; A8K997
Molecular Weight	23,147 Da
NCBI Official Full Name	T-cell surface glycoprotein CD3 epsilon chain
NCBI Official Synonym Full Names	CD3e molecule, epsilon (CD3-TCR complex)
NCBI Official Symbol	CD3E
NCBI Official Synonym Symbols	T3E; TCRE; IMD18
NCBI Protein Information	T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell antigen receptor complex, epsilon subunit of T3; T-cell surface antigen T3/Leu-4 epsilon chain
UniProt Protein Name	T-cell surface glycoprotein CD3 epsilon chain
UniProt Gene Name	CD3E
UniProt Synonym Gene Names	T3E
UniProt Entry Name	CD3E_HUMAN

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://stage.aaabiotech.com/monoclonal/cd3-antibody-clone-cd3-12-immunohistochemistry-immunofluorescence-flow-cytometry-immunohistochemistry-elisa/49787>