

Rat CD3 Monoclonal Antibody | anti-CD3 antibody

RAT ANTI HUMAN CD3:FITC

CATALOG # AAA49585	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	CD3-12
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	207
Applicable Applications for anti-CD3 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Immunogen	Synthetic peptide sequence derived from cytoplasmic epitope of CD3 (Glu-Arg-Pro-Pro-Pro-Val- Pro-Asn-Pro-Asp-Tyr-Glu-Pro-Cys) (ERPPPVNPDPYEPC)
Buffer Solution	Phosphate buffered saline
Target Species	Human
Species Cross Reactivity	Reacts with: Bovine, Dog, Horse, Rhesus Monkey, Pig, Chicken, Mouse, Duck, Koala, Harbour Porpoise, Alpaca, Cynomolgus monkey, Spotted Hyena, Sea Lion, Cat, Amazon Parrot, Raccoon, Great horned owl (Bubo virginianus), Bullfrog, Xenopus Based on sequence similarity, is expected to react with:Mammals, Birds, Amphibia N.B. Antibody reactivity and working conditions may vary between species.
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. This product is photosensitive and should be protected from light. 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.

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 (α , γ , δ , ϵ) that assemble and function as three pairs of dimers (α γ , δ ϵ , α 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)
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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.