

Mouse CD3 Monoclonal Antibody | anti-CD3 antibody

MOUSE ANTI PIG CD3: Low Endotoxin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50251	Mouse	Does not react with: Bovine, Goat, Horse, Human, Sheep	Functional Assay, Western Blot, Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD3; Monoclonal Antibody; MOUSE ANTI PIG CD3: Low Endotoxin; anti-CD3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Does not react with: Bovine, Goat, Horse, Human, Sheep
Clonality	Monoclonal
Isotype	IgG1
Clone Number	PPT3
Specificity	CD3 EPSILON
Form/Format	Low Endotoxin Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	196
Applicable Applications for anti-CD3 antibody	FA (Functional Assay), WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Pig
Preservative Stabiizers	None present
Endotoxin Level	<0.01 EU/ug
Immunogen	Porcine PBMCs
Carrier Free	yes
Preparation and Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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	Mouse anti Pig CD3, clone PPT3 recognizes the porcine homologue of human CD3epsilon, a 24 kDa single pass type I membrane protein expressed by T-lymphocytes. Clone PPT3, also known under the clone designation FY1H2, was clustered at the second international swine CD workshop and found to specifically recognise an epitope on the porcine CD3epsilon designated as CD3c (Pescovitz, M.D., et al. 1998).CD3 is a multimeric protein complex composed of four distinct polypeptide chains (epsilon, gamma, delta, zeta) that assemble and function as three pairs of dimers (epsilongamma, epsilondelta, zetazeta). The CD3 complex serves as a T cell co-receptor that associates non-covalently with the T cell receptor (TCR) (Guy, C.S & Vignali, D.G. 2009). CD3 is a defining feature of cells belonging to the T cell lineage, antibodies recognising pig CD3 therefore provide useful markers of porcine T cells. Clone PPT3 has been demonstrated to recognise an epitope that is expressed both intracellularly and extracellularly, additionally clone PPT3 has been demonstrated to activate alpha/beta T-cells (Kirkham P.A., et al. 1996). Epitope mapping studies have demonstrated that clone PPT3 recognises an alternative epitope to clone PPT6 (Yang, H. et al. 1996; Pescovitz, M.D., et al. 1998). Clone PPT3 was tested on PBL from a range of other mammalian species and found to be negative suggesting that the epitope recognised by this clone is specific to porcine (Yang, H. et al. 1996).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	78099944
NCBI GeneID	397455
UniProt Accession #	Q7YRN2
NCBI Official Full Name	T-cell surface glycoprotein CD3 epsilon chain
NCBI Official Symbol	CD3E
NCBI Official Synonym Symbols	CD3
NCBI Protein Information	T-cell surface glycoprotein CD3 epsilon chain
UniProt Protein Name	T-cell surface glycoprotein CD3 epsilon chain
UniProt Gene Name	CD3E
UniProt Entry Name	CD3E_PIG

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-ppt3-functional-assay-western-blot-immunoprecipitation-immunohistochemistry-flow-cytometry-elisa/50251>