

Rabbit anti-Pig CD3e Antibody | anti-CD3e antibody

Anti-CD3e [898H2-6-15], Rabbit IgG

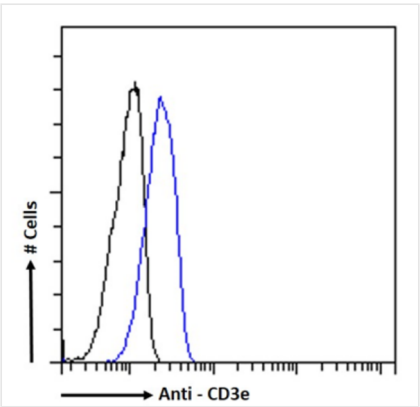
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72253	Rabbit	Pig	Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

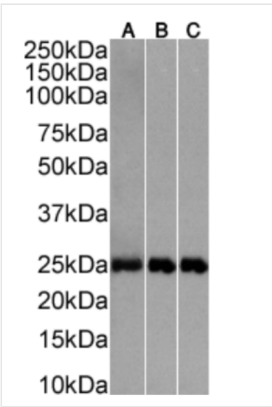
CD3e; Anti-CD3e [898H2-6-15]; Rabbit IgG; Leu4/T3; Cluster of Differentiation 3 epsilon chain; T cell glycoprotein CD3 epsilon chain; anti-CD3e antibody

PRODUCT SPECIFICATIONS

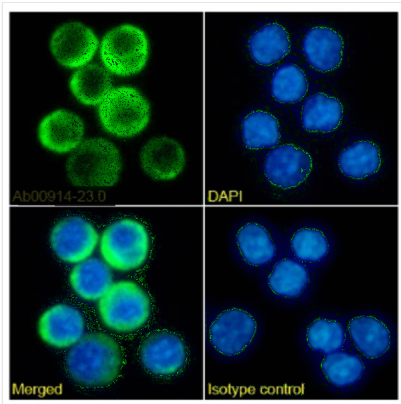
Host	Rabbit
Reactivity	Pig
Isotype	Rabbit IgG, Kappa
Clone Number	898H2-6-15
Specificity	Hybridoma 898H2-6-15 was shown via double-colour flow cytometry analysis to bind swine lymphocyte populations specifically. It was further shown using FACS that purified 898H2-6-15 bound an epitope on CD3e shared by another anti-pig CD3 Ab (STH164). CD3, and the e chain in particular, is crucial for T cell receptor-dependent signal transduction across the lymphocyte membrane.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD3e antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Murine antibodies were produced by immunising C3H/HeJ mice with swine peripheral blood lymphocytes. Hybridomas were generated by obtaining splenocytes from the immunised mice and fusing these with the non-Ig-producing myeloma cell line P3X63Ag8.653 via established methods.
Origin Pub PMID	21866954
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD3e antibody 898H2-6-15 (AAA72253). Paraformaldehyde fixed pig peripheral blood monocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of 898H2-6-15 (AAA72253-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)
Western Blot using Anti-CD3e antibody 898H2-6-15 (AAA72253). Pig spleen(A) (1ug/ml), pig thymus(B) (0.1ug/ml) and lymph node(C) (0.1ug/ml) tissue lysate (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of 898H2-6-15 (AAA72253-23.0) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



IF (Immunofluorescence)
Immunofluorescence staining of pig peripheral blood monocytes with anti-CD3e (AAA72253) 898H2-6-15 Immunofluorescence analysis of paraformaldehyde fixed pig peripheral blood monocytes on Shi-fix coverslips stained with the chimeric rabbit IgG version of 898H2-6-15 (AAA72253-23.0) at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom AAA72253-23.0, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD3e antibody	The initial identification of 898H2-6-15 showed that it recognised the T-cell receptor-associated glycoprotein CD3, in particular the e chain (Huang et al, 1999). More recently, the 898H2-6-15 VH and VL domains were reformatted into a scFv and conjugated to diphtheria toxin (Wang et al, 2011). This version of the antibody as an 'immunotoxin' has been shown to deplete circulating T cells in swine without observation of any clinical toxicities.
Product Categories/Family for anti-CD3e antibody	Lymphocytes; xenotransplantation; grafting
References	Huang et al. Characterization of a monoclonal anti-porcine CD3 antibody Xenotransplantation 1999: 5: 201-212 PMID:10503787

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rabbit-pig-antibody/cd3e/72253>