

Product Datasheet

Anti-CD3e [898H2-6-15] (orb1152491)

Catalog Number	orb1152491
Category	Antibodies
Description	Rabbit monoclonal antibody to CD3e
Target	CD3e
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG
Conjugation	Unconjugated
Reactivity	Porcine
Concentration	1 mg/ml
Buffer/Preservatives	PBS with 0.02% Proclin 300.
Purity	Purified
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.
UniProt ID	Q7YRN2
Tested applications	FC, IHC

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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.

Clone Number

898H2-6-15

Storage

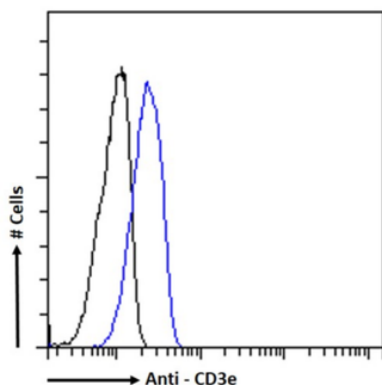
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

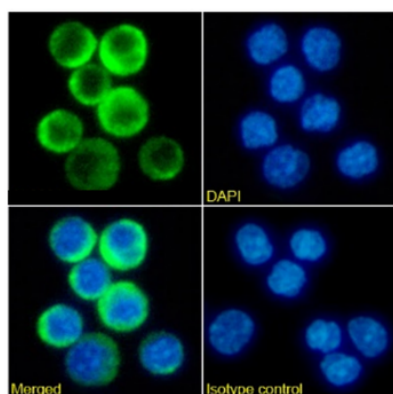
For research use only

Expiration Date

12 months from date of receipt.



Flow cytometry using the Anti-CD3e antibody 898H2-6-15. Paraformaldehyde fixed pig peripheral blood monocytes permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody (orb256458; isotype control, black line) or the rabbit IgG version of 898H2-6-15 (orb1152491, 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.



Immunofluorescence staining of pig peripheral blood monocytes with anti-CD3e 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 (orb1152491) at 10 µg/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 µg/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom orb1152491, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody (orb256458) followed by staining with Alexa Fluor® 488 secondary antibody.

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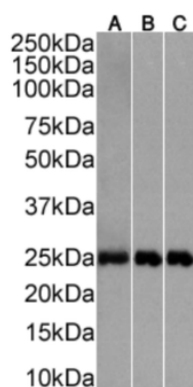
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Western Blot using Anti-CD3e antibody 898H2-6-15. Pig spleen(A) (1 $\mu\text{g/ml}$), pig thymus(B) (0.1 $\mu\text{g/ml}$) and lymph node(C) (0.1 $\mu\text{g/ml}$) tissue lysate (35 μg protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of 898H2-6-15 (orb1152491) before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.

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