Anti-CD3e [898H2-6-15] Standard Size Ab00914-2.0

Isotype and Format: Mouse IgG2a, Kappa
Clone Number: 898H2-6-15
Alternative Name(s) of Target: Leu4/T3; Cluster of Differentiation 3 epsilon chain; T cell glycoprotein CD3 epsilon chain
UniProt Accession Number of Target Protein: Q7YRN2
Published Application(s): FC, IHC
Published Species Reactivity: Pig
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.
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.
Application Notes: 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.
Antibody First Published in: Huang et al. Characterization of a monoclonal anti-porcine CD3 antibody Xenotransplantation 1999: 5: 201-212 PMID:10503787
Note on publication: Describes the identification and qualitative characterisation of murine anti-pig CD3e antibodies from hybridoma. These were shown to be specific for pig T lymphocytes, as opposed to human and baboon peripheral blood cells, and mouse spleen cells.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -

20ºC.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.