

Anti-CD3e [898H2-6-15] Standard Size Ab00914-23.0

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.

Isotype and Format: Rabbit IgG, 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 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

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.