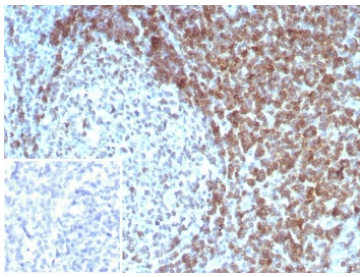
CD3 delta Antibody [clone CD3D/8898] (V5417)

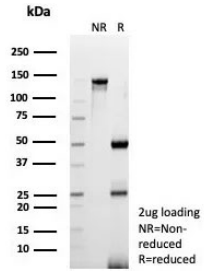
Catalog No.	Formulation	Size
V5417-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5417-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5417SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CD3D/8898
Purity	Protein A/G affinity
UniProt	P04234
Localization	Membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CD3 delta antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with CD3 delta antibody (clone CD3D/8898). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CD3 delta antibody (clone CD3D/8898) as confirmation of integrity and purity.

Description

The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multisubunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). It is composed of five invariant polypeptide chains that associate to form three dimers: a heterodimer of g and e chains (ge), a heterodimer of d and e chains (de) and a homodimer of two z chains (zz) or a heterodimer of z and h chains (zh). The z and h chains are encoded by the same gene but differ in their carboxyl-terminal ends due to an alternative splicing event. The g, e and d chains each contain a single copy of a conserved immunoreceptor tyrosine-based activation motif (ITAM). In contrast, the z chain contains three consecutive copies of the same motif. Phosphorylated ITAMs act as docking sites for protein kinases such as ZAP-70 and Syk and are also capable of regulating their kinase activity. The crystal structure of the ZAP-70 SH2 domains bound to the z chain ITAMs has been solved.

Application Notes

Optimal dilution of the CD3 delta antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 1-171) of human CD3D protein was used as the immunogen for the CD3 delta antibody.

Storage

Aliquot the CD3 delta antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.