# CD3D / T Cell Receptor delta Antibody

Mouse Monoclonal Antibody [Clone CD3D/8898]

| Catalog No | Format | Size |
|---|---|---|
| 915-MSM1-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 915-MSM1-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 915-MSM1-P1ABX | Purified Ab WITHOUT BSA at 1.0mg/ml | 100 ug |

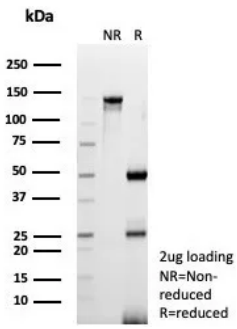
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

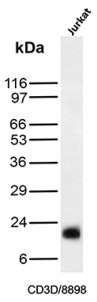
| | |
|---|---|
| **Clone** | CD3D/8898 |
| **Gene Name** | CD3D |
| **Immunogen** | Recombinant fragment (around aa1-171) of human CD3D protein (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | 20kDa |
| **Cellular Localization** | Membrane. External side of plasma membrane. |
| **Species Reactivity** | Human |
| **Positive Control** | Human peripheral blood. Jurkat cells. Tonsil or lymph node. MOLT-4. |

**Optimal dilution for a specific application should be determined.*

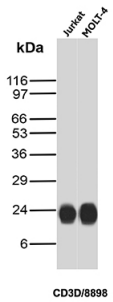
## Product Images for CD3D / T Cell Receptor delta Antibody



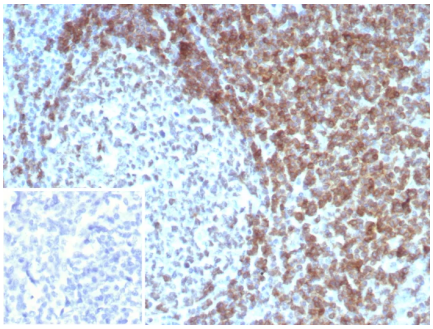

SDS-PAGE Analysis of Purified CD3D Mouse Monoclonal Antibody (CD3D/8898). Confirmation of Purity and Integrity of Antibody.




Western blot analysis of Jurkat cell lysate using CD3D Mouse Monoclonal Antibody (CD3D/8898).




Western Blot analysis of Jurkat and MOLT-4 cell lysates using CD3D Mouse Monoclonal Antibody (CD3D/8898).



Formalin-fixed, paraffin-embedded human tonsil stained with CD3D Mouse Monoclonal Antibody (CD3D/8898). Inset: PBS instead of primary antibody; secondary only negative control.

## Specificity & Comments

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.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C.Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Cardiovascular, Immunology, PD-1 blockade immunotherapy

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.