

## CD3e (T-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone C3e/2478]

Catalog No	Format	Size
916-MSM14-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
916-MSM14-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
916-MSM14-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug

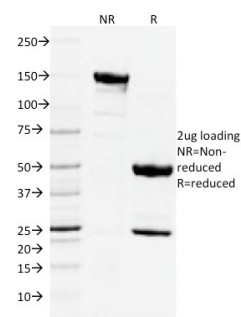
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Western Blot (WB)	2-4ug/ml	

### Product Details

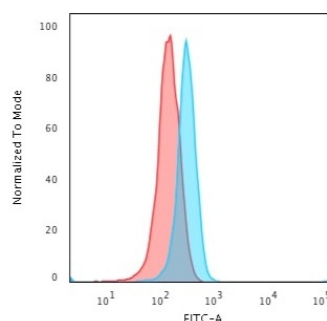
<b>Clone</b>	C3e/2478
<b>Gene Name</b>	CD3E
<b>Immunogen</b>	Recombinant human CD3e fragment (around aa 23-119) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	20kDa
<b>Cellular Localization</b>	Cell membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human peripheral blood. Jurkat cells. Tonsil or lymph node. MOLT-4.

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

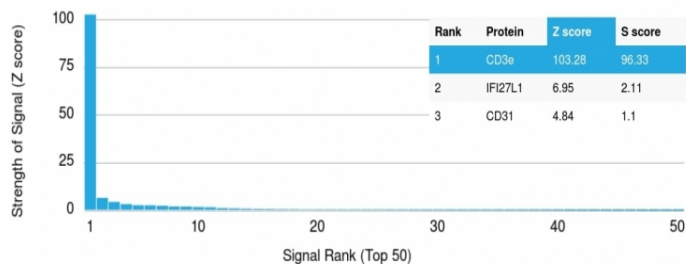
### Product Images for CD3e (T-Cell Marker) Antibody



SDS-PAGE Analysis of Purified CD3e Mouse Monoclonal Antibody (C3e/2478). Confirmation of Purity and Integrity of Antibody.



Flow Cytometric Analysis of Jurkat cells. CD3e Mouse Monoclonal Antibody (C3e/2478) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



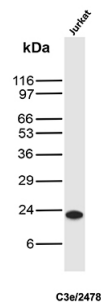
Analysis of Protein Array containing more than 19,000 full-length human proteins using CD3e Mouse Monoclonal Antibody (C3e/2478) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Specificity & Comments

Recognizes the epsilon-chain of CD3, which consists of five different polypeptide chains (designated as gamma, delta, epsilon, zeta, and eta) with MW ranging from 16-28kDa. The CD3 complex is closely associated at the lymphocyte cell surface with the T cell antigen receptor (TCR). Reportedly, CD3 complex is involved in signal transduction to the T cell interior following antigen recognition. The CD3 antigen is first detectable in early thymocytes and probably represents one of the earliest signs of commitment to the T cell lineage. In cortical thymocytes, CD3 is predominantly intracytoplasmic. However, in medullary thymocytes, it appears on the T cell surface. CD3 antigen is a highly specific marker for T cells, and is present in majority of T cell neoplasms.

### 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.



Western Blot analysis of Jurkat cell lysate using CD3e Mouse Monoclonal Antibody (C3e/2478).

### 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, Immuno Oncology, Immunology, Hematopoietic Stem Cells, PD-1 blockade immunotherapy