

CD3e Monoclonal Antibody (4E2)

Catalog Number **MA5-15627**

Product data sheet

Details	
Size	100 µL
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	4E2
Immunogen	Purified recombinant fragment of CD3E expressed in E. Coli.
Conjugate	Unconjugated
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human
Tested Applications	
ELISA (ELISA)	1:10,000
Flow Cytometry (Flow)	1:200-1:400
Western Blot (WB)	1:500-1:2,000
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

MA5-15627 targets CD3E in indirect ELISA, FACS and WB applications and shows reactivity with Human samples. The MA5-15627 immunogen is purified recombinant fragment of CD3E expressed in E. Coli. MA5-15627 detects CD3E which has a predicted molecular weight of approximately 23kDa.

Background/Target Information

The CD3 subunit complex which is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules and this association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. The genes encoding the CD3 epsilon, gamma and delta polypeptides are located on chromosome 11. Defects in the CD3 gene are associated with CD3 immunodeficiency.

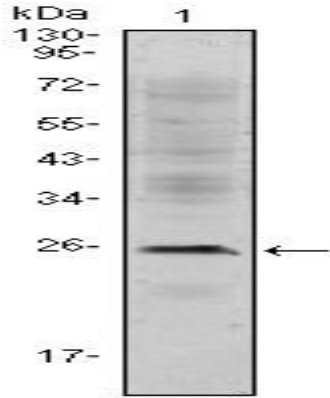
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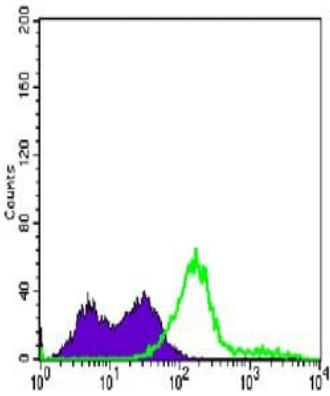
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Product Images For CD3e Monoclonal Antibody (4E2)



CD3e Antibody (MA5-15627) in WB
Western blot analysis of CD3e/TCRE using CD3e/TCRE monoclonal antibody (Product # MA5-15627) in Jurkat (1) cell lysate.



CD3e Antibody (MA5-15627) in Flow
Flow cytometric analysis of Jurkat cells using CD3e/TCRE monoclonal antibody (Product # MA5-15627) (green) and negative control (purple).

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