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CD3E Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a full length recombinant CD3E.
Catalog # AT1437a

Specification

CD3E Antibody (monoclonal) (M04) - Product Information

Application	**WB, E**
Primary Accession	P07766
Other Accession	BC049847
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**23147**

CD3E Antibody (monoclonal) (M04) - Additional Information

Gene ID 916

Other Names
T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4 epsilon chain, CD3e, CD3E, T3E

Target/Specificity
CD3E (AAH49847.1, 23 a.a. ~ 207 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
CD3E Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

CD3E Antibody (monoclonal) (M04) - Protocols

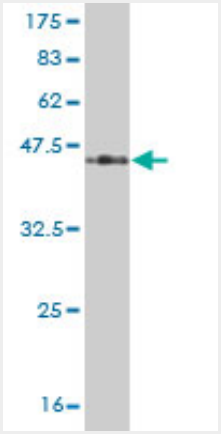
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

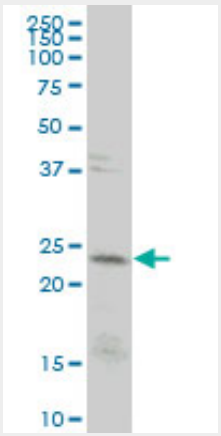
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

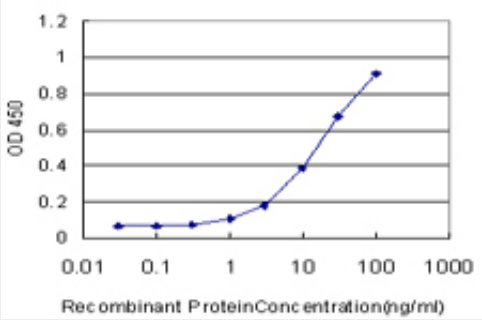
CD3E Antibody (monoclonal) (M04) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (46.09 KDa) .

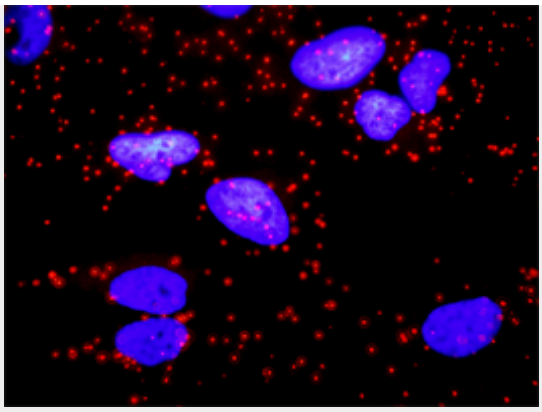


CD3E monoclonal antibody (M04), clone 4C1 Western Blot analysis of CD3E expression in HeLa ((Cat # AT1437a)



Detection limit for recombinant GST tagged CD3E is approximately 1ng/ml as a capture antibody.

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Proximity Ligation Analysis of protein-protein interactions between CD247 and CD3E. HeLa cells were stained with anti-CD247 rabbit purified polyclonal 1:1200 and anti-CD3E mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

CD3E Antibody (monoclonal) (M04) - Background

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

CD3E Antibody (monoclonal) (M04) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Evaluation of 6 candidate genes on chromosome 11q23 for coeliac disease susceptibility: a case control study. Brophy K, et al. BMC Med Genet, 2010 May 17. PMID 20478055.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.In vitro preparation and characterization of the human CD3 epsilon epsilon homodimer and CD3 epsilon gamma and CD3 epsilon delta heterodimers. Su Z, et al. Int J Mol Med, 2009 Oct. PMID 19724882.