

Product Datasheet

CD3 Antibody (APA1/1) [PE]

NBP1-30427

Unit Size: 0.1 mg

Store at 4C in the dark.

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NBP1-30427

CD3 Antibody (APA1/1) [PE]

Product Information	
Unit Size	0.1 mg
Concentration	0.1 mg/ml
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	APA1/1
Preservative	15mM Sodium Azide
Isotype	IgG1
Conjugate	PE
Purity	IgG purified
Buffer	Phosphate buffered saline (PBS), pH 7.4

Product Description	
Host	Mouse
Gene ID	916
Gene Symbol	CD3E
Species	Human, Mouse
Reactivity Notes	Human and Mouse.
Specificity/Sensitivity	The mouse monoclonal antibody APA1/1 recognizes an activation-dependent intracellular epitope of CD3 epsilon. Exposure of the epitope precedes CD3 phosphorylation and recruitment and activation of ZAP70, which initiates the signaling cascade produced by T-cell activation. APA1/1 provides the earliest known marker for TCR-mediated T cell activation.
Immunogen	Purified human CD3 proteins isolated from thymus (NM_000733.3).
Notes	Store in the dark, avoid prolonged exposure to light.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1-4 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:50, Immunohistochemistry-Frozen 1:200, Flow (Intracellular) 1-4 ug/ml



Publications

Alarcon B et al. The CD3-gamma and CD3-delta subunits of the T cell antigen receptor can be expressed within distinct functional TCR/CD3 complexes. *EMBO J*;10(4):903-12. 1991-04-01 [PMID: 1826255]

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Rieux-Laucat F et al. Inherited and somatic CD3zeta mutations in a patient with T-cell deficiency. *N Engl J Med*;354(18):1913-21. 2006-05-04 [PMID: 16672702]

Risueno RM et al. A conformational change senses the strength of T cell receptor-ligand interaction during thymic selection. *Proc Natl Acad Sci U S A*;103(25):9625-30. 2006-06-20 [PMID: 16766661]

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Gil D et al. T cell receptor engagement by peptide-MHC ligands induces a conformational change in the CD3 complex of thymocytes. *J Exp Med*;201(4):51. 2005-02-21 [PMID: 15728235]

Torres PS et al. TCR dynamics in human mature T lymphocytes lacking CD3 gamma. *J Immunol*;170(12):5947-55. 2003-06-15 [PMID: 12794121]

Delgado P et al. CD3delta couples T-cell receptor signalling to ERK activation and thymocyte positive selection. *Nature*;406(6794):426-30. 2000-07-27 [PMID: 10935641]





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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