



Technical Data Sheet

Product	<b>Anti-CD3 epsilon (activation epitope) PE</b>	
Cat. Number/Size	<b>1P-599-C025</b>	<b>0.025 mg</b>
	<b>1P-599-C100</b>	<b>0.1 mg</b>
	<b>For Research Use Only.</b>	
	<b>Not for use in diagnostic or therapeutic procedures.</b>	
Antigen	CD3 epsilon (activation epitope)	
Clone	APA1/1	
Format	PE	
Reactivity	Mouse, Human	
Application	FC (QC tested)	
Application details	Flow cytometry: Recommended dilution: 1-4 µg/ml. Intracellular staining. Immunocytochemistry: Fixed and permeabilised cells. The antibody can distinguish TCR-stimulated from non-stimulated cells.	
Excitation laser	blue (488 nm)	
Isotype	Mouse IgG1	
Specificity	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.	
Other names	CD3 epsilon chain, T3E, IMD18	
Immunogen	Purified human CD3 proteins isolated from thymus	
Entrez Gene ID	916	
Gene name	CD3E	
NCBI Full Gene Name	CD3 antigen, epsilon polypeptide	
UniProt ID	P07766	
Concentration	0.1 mg/ml	
Preparation	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.	
Formulation	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Storage and handling	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.	
Images and References	<a href="http://www.exbio.cz">www.exbio.cz</a>	

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