



Technical Data Sheet

Product	Anti-CD3 epsilon (activation epitope) Purified	
Cat. Number/Size	11-599-C025	0.025 mg
	11-599-C100	0.1 mg
	For Research Use Only.	
	Not for use in diagnostic or therapeutic procedures.	
Antigen	CD3 epsilon (activation epitope)	
Clone	APA1/1	
Format	Purified	
Reactivity	Mouse, Human	
Application	FC (QC tested), IP, WB, IHC-F, ICC	
Application details	Flow cytometry: Intracellular staining; recommended dilution: 1-4 µg/ml; positive control: human T cells stimulated with anti-CD3 (MEM-57) antibody (1 µg/ml). Sample preparation: At the end of stimulation of T cells, perform staining of surface markers (if required) in PBS + 0.1% BSA for 20 min. on ice. Wash with PBS and fix with 2% formaldehyde, 30 min on ice. Wash with PBS and incubate in PBS + 0.1% saponine, 5 min. RT. Incubate the cells in PBS + 1% BSA + 0.03% saponine, 15 min. on ice. Incubate with fluorescence-labeled APA1/1 antibody (1-2 µg/ml) in PBS + 1% BSA + 0.03% saponine in dark, 20 min. RT. Wash with PBS + 1% BSA + 0.03% saponine, resuspend in PBS. Immunocytochemistry: Fixed and permeabilised cells. The antibody can distinguish TCR-stimulated from non-stimulated cells.	
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	1 mg/ml	
Preparation	Purified by protein-A affinity chromatography.	
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Storage and handling	Store at 2-8°C. Do not freeze.	
Images and References	www.exbio.cz	

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