

**Adenosine Deaminase (D1P4Y) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	41	Rabbit IgG	#P00813	100
Product Usage Information	Application		Dilution			
	Western Blotting		1:1000			
	Immunoprecipitation		1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity	Adenosine Deaminase (D1P4Y) Rabbit mAb recognizes endogenous levels of total adenosine deaminase protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly45 of human adenosine deaminase protein.					
Background	Adenosine deaminase (ADA) catalyzes adenosine degradation (1). Lack of this enzyme leads to the accumulation of toxic metabolites causing severe combined immunodeficiency (ADA-SCID), an autosomal recessive disorder. Differentiation and function of T cells, B cells, and natural killer cells are impaired in ADA-SCID patients leading to recurrent infections (1,2). Gene therapies for ADA-SCID were reported to correct the metabolic defect and restore the deficient immune function (1-3).					
Background References	1. Blaese, R.M. et al. (1995) <i>Science</i> 270, 475-80. 2. Cicalese, M.P. et al. (2018) <i>Mol Ther</i> 26, 917-31. 3. Hoggatt, J. (2016) <i>Cell</i> 166, 263.					

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** **W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key** **H:** Human

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