

## E2A (D2B1) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

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<b>Applications:</b> W, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 75	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P15923	Entrez-Gene Id: 6929
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		E2A (D2B1) Rabbit mAb recognizes endogenous levels of total E2A protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly112 of human E2A protein.				
Background		E2A is a member of the E-protein family of transcription factors, a subclass of basic helix-loop-helix (bHLH) proteins that bind specifically to E-box consensus sequences (1,2). Alternative splicing generates two E2A isoforms (E47 and E12) that are actively involved in B cell lineage commitment, B cell maturation, IgK V-J rearrangement, peripheral B cell development, and tumor suppression (3). E2A acts in <i>cis</i> during G1 to promote immunoglobulin gene diversification (4). Research studies have shown that chromosomal translocations involving the E2A gene result in the expression of multiple fusion proteins and are associated with many cases of pediatric acute lymphoblastic leukemia (5).				
Background References		1. Murre, C. (2005) <i>Nat</i> 2. Bain, G. et al. (2001) 3. Schwartz, R. et al. (2 4. Yabuki, M. et al. (200 5. LeBrun, D.P. (2003) <i>I</i>	<i>Nat Immunol</i> 2, 16 006) <i>Proc Natl Acad</i> 09) <i>J Immunol</i> 182,	5-71. <i>1 Sci U S A</i> 103, 9976-81. 408-15.		
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 BSA, 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 Mk: Monkey				
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