E2A Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit	UniProt ID: #P15923	Entrez-Gene Id: 6929
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		E2A Antibody detects endogenous levels of total E2A protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu475 of human E2A protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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		 Murre, C. (2005) Nat Immunol 6, 1079-86. Bain, G. et al. (2001) Nat Immunol 2, 165-71. Schwartz, R. et al. (2006) Proc Natl Acad Sci U S A 103, 9976-81. Yabuki, M. et al. (2009) J Immunol 182, 408-15. LeBrun, D.P. (2003) Front Biosci 8, s206-22. 				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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

Cross-Reactivity Key

H: Human

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