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AML1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M	Endogenous	55	Rabbit	#Q01196	861

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	AML1 Antibody detects endogenous levels of total AML1 protein. This antibody will recognize human AML1, however, we recommend AML1 (D33G6) XP® Rabbit mAb #4336 for detection of human AML1.	
Species predicted to react based on 100% sequence homology:	Rat, Monkey	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val211 of human AML1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	AML1 (also known as Runx1, CBFA2, and PEBP2αB) is a member of the core binding factor (CBF) family of transcription factors (1,2). It is required for normal development of all hematopoietic lineages (3-5). AML1 forms a heterodimeric DNA binding complex with its partner protein CBFβ and regulates the expression of cellular genes by binding to promoter and enhancer elements. AML1 is commonly translocated in hematopoietic cancers: chromosomal translocations include t(8;21) AML1-ETO, t(12;21) TEL-AML, and t(8;21) AML-M2 (6). Phosphorylation of AML1 on several potential serine and threonine sites, including Ser249, is thought to occur in an Erk-dependent manner (7,8).	
Background References	<ol style="list-style-type: none"> 1. Wang, S. et al. (1993) <i>Mol Cell Biol</i> 13, 3324-39. 2. Ogawa, E. et al. (1993) <i>Proc Natl Acad Sci U S A</i> 90, 6859-63. 3. Okuda, T. et al. (1996) <i>Cell</i> 84, 321-30. 4. Wang, Q. et al. (1996) <i>Proc Natl Acad Sci U S A</i> 93, 3444-9. 5. North, T.E. et al. (2004) <i>Stem Cells</i> 22, 158-68. 6. Blyth, K. et al. (2005) <i>Nat Rev Cancer</i> 5, 376-87. 7. Tanaka, T. et al. (1996) <i>Mol Cell Biol</i> 16, 3967-79. 8. Zhang, Y. et al. (2004) <i>J Biol Chem</i> 279, 53116-25. 	

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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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