

7708

ETO Antibody



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

Applications:	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q06455	Entrez-Gene Id: 862
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		ETO Antibody detects endogenous levels of ETO protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence surrounding Ser270 of human ETO. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		ETO belongs to a family of evolutionarily conserved nuclear factors. Although it has no DNA binding domains it is reported to act as a transcriptional corepressor (1). It is best characterized as the fusion partner of AML1 in acute myeloid leukemia with the t(8;21) translocation which gives rise to the AML-ETO fusion protein (2). AML1 is a transcription factor that is involved in the differentiation of all hematopoietic lineages. The fusion protein lacks the activation domain of AML1 and behaves as a dominant negative AML1, repressing AML1 target genes. AML-ETO also causes activation of other genes through a mechanism that involves Bcl-2 and enhanced expression of p21 waf1/cip1 (3,4). The AML-ETO fusion protein is thought to cause the expansion of a hematopoietic stem cell population that has limited lineage commitment and genomic instability (5). Recent evidence derived from chromatin immunoprecipitation (ChIP) experiments has demonstrated that ETO may play a role in the regulation of Notch target genes, and AML-ETO has been shown to disrupt repression of Notch target genes (6). Therefore, both AML and Notch target genes are deregulated by AML-ETO. Epigenetic silencing of the microRNA-223 gene has also been attributed to activities of AML-ETO, contributing to the differentiation block in t(8;21) leukemia (7).				
Background References		1. Davis, J.N. et al. (2003) <i>Gene</i> 303, 1-10. 2. Downing, J.R. et al. (1993) <i>Blood</i> 81, 2860-5. 3. Klampfer, L. et al. (1996) <i>Proc Natl Acad Sci USA</i> 93, 14059-64. 4. Peterson, L.F. et al. (2007) <i>Blood</i> 109, 4392-8. 5. Elagib, K.E. and Goldfarb, A.N. (2007) <i>Cancer Lett</i> 251, 179-86. 6. Salat, D. et al. (2008) <i>Mol Cell Biol</i> 28, 3502-12. 7. Nervi, C. et al. <i>Epigenetics</i> 3, 1-4.				

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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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