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AML1 (D33G6) XP[®] Rabbit mAb (PE Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H Mk	Endogenous	Rabbit IgG	#Q01196	861

Product Usage Information**Application**

Flow Cytometry (Fixed/Permeabilized)

Dilution

1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.

Specificity/Sensitivity

AML1 (D33G6) XP[®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total AML1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids at the amino terminus of human AML1 protein.

Description

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated AML1 (D33G6) XP[®] Rabbit mAb #4336.

Background

AML1 (also known as Runx1, CBFA2, and PEBP2aB) 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 CBF β 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

1. Wang, S. et al. (1993) *Mol Cell Biol* 13, 3324-39.
2. Ogawa, E. et al. (1993) *Proc Natl Acad Sci U S A* 90, 6859-63.
3. Okuda, T. et al. (1996) *Cell* 84, 321-30.
4. Wang, Q. et al. (1996) *Proc Natl Acad Sci U S A* 93, 3444-9.
5. North, T.E. et al. (2004) *Stem Cells* 22, 158-68.
6. Blyth, K. et al. (2005) *Nat Rev Cancer* 5, 376-87.
7. Tanaka, T. et al. (1996) *Mol Cell Biol* 16, 3967-79.
8. Zhang, Y. et al. (2004) *J Biol Chem* 279, 53116-25.

Species Reactivity

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

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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