

Product datasheet for **AM11041PU-N**

RIZ1 (PRDM2) (1-347) Mouse Monoclonal Antibody [Clone ID: 33AT1045]

Product data:

Product Type:	Primary Antibodies
Clone Name:	33AT1045
Applications:	WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100-1/500. ChIP (validated by third-party citation).
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant GST fusion protein encoding aa 1-347 of human RIZ1.
Specificity:	This antibody is specific for RIZ1, it does not recognize the isoform beta (RIZ2).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	PR domain 2
Database Link:	Entrez Gene 7799 Human Q13029



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Background:

Similar to acetylation and phosphorylation, histone methylation at the N-terminal tail has emerged as an important role in regulating chromatin dynamics and gene activity. Histone methylation occurs on arginine and lysine residues and is catalyzed by two families of proteins, the protein arginine methyltransferase family and the SET-domain-containing methyltransferase family. Five members have been identified in the arginine methyltransferase family. About 27 are grouped into the SET-domain family, and another 17 make up the PR domain family that is related to the SET domain family. The retinoblastoma protein-interacting zinc finger gene RIZ1 is a tumor suppressor gene and a FOUNDING member of the PR domain family. RIZ1 inactivation is commonly found in many types of human cancers and occurs through loss of mRNA expression, frame shift mutation, chromosomal deletion, and missense mutation. RIZ1 is also a tumor susceptibility gene in mice. The loss of RIZ1 mRNA in human cancers was shown to associate with DNA methylation of its promoter CpG island. Methylation of the RIZ1 promoter strongly correlated with lost or decreased RIZ1 mRNA expression in breast, liver, colon, and lung cancer cell lines as well as in liver cancer tissues.

Synonyms:

PR domain zinc finger protein 2, KMT8, RIZ1, RIZ2, MTB-ZF, HUMHOXY1

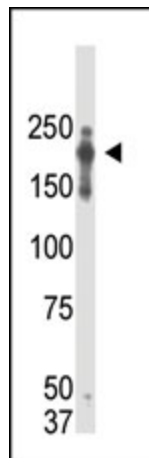
Product images:

Figure 1. Western blot analysis of anti-PRDM2 Mab in lysate from transformed cells. Lane A: mock plasmid, Lane B: PRDM2[1-347]-encoding plasmid. PRDM2[1-347] (arrow) was detected using purified Mab. Secondary HRP-anti-mouse was used for signal visualization with chemiluminescence.