#13069 Store at -20C

Ring1A (D2P4D) Rabbit mAb



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Applications: WB, IP, IF-IC	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q06587	Entrez-Gene Id: 6015
Product Usage Information	Ap	pplication				Dilution
	We	estern Blotting				1:1000
	Im	munoprecipitation				1:100
	lm	Immunofluorescence (Immunocytochemistry)				1:800
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensiti		Ring1A (D2P4D) Rabbit mAb recognizes endogenous levels of total Ring1A protein. This antibody does not cross-react with Ring1B.				
Species predicted react based on 100 sequence homolog	9%	inea Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro316 of human Ring1A protein.				
Background	tran con The ubio gen imp abil	Ring1A plays a role in polycomb group (PcG) protein function. PcG proteins are critically involved in transcriptional repression of Hox genes during development (1,2). PcG proteins form two distinct complexes: EED-EZH2 and the PRC complex, which is composed of at least Bmi1 and Ring1A/Ring1B. The EZH2-containing complex is responsible for the methylation of H3K27, and the PRC complex ubiquitylates H2A. EZH2 methylation is required prior to PRC ubiquitylation, and both are essential for Hox gene repression (1). It has recently been shown that PcG proteins silence a group of developmentally important regulator genes, referred to as bivalent genes (3). This regulation may be responsible for the ability of stem cells to self renew or switch to differentiate into multipotent progenitors. Aberrant epigenetic silencing by PcG proteins is also thought to be important in tumorigenesis (4).				
Background Refere	 Cao, R. et al. (2005) Mol Cell 20, 845-54. Otte, A.P. and Kwaks, T.H. (2003) Curr Opin Genet Dev 13, 448-54. Stock, J.K. et al. (2007) Nat Cell Biol 9, 1428-35. Sparmann, A. and van Lohuizen, M. (2006) Nat Rev Cancer 6, 846-56. 					

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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Limited Uses

Ring1A (D2P4D) Rabbit mAb (#13069) Datasheet Without Images Cell Signaling Technology

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