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## p15 INK4B (E3R6S) Rabbit mAb



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Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 15	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P42772	Entrez-Gene Id: 1030		
Product Usage Information		Application Western Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sens	itivity	p15 INK4B (E3R6S) Rabbit mAb recognizes endogenous levels of total p15 INK4B protein. This antibody does not cross-react with p16 INK4A.						
Source / Purifica	<b>/ Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg133 of human p15 INK4B protein.					rresponding to		
Background	kgroundMembers of the INK4 family of cyclin dependent kinase inhibitors include p16 INK4A, p15 INK4B, p1INK4C, and p19 INK4D. The INK4 family members inhibit cyclin dependent kinases 4 and 6 (CDK4 an CDK6), causing cell cycle arrest in G1 phase. The INK4A-ARF-INK4B locus on chromosome 9p21, frequently lost in human cancer, encodes the INK4 family members p16 INK5A and p15 INK4B, as we as the unrelated protein, ARF (1). p15 INK4B protein expression is induced by TGF-β in human keratinocytes (2), a process which requi demethylation at the p15 INK4B locus (3). In hematopoietic cells, p15 INK4B signaling functions in th determination of cell fate (4,5).Researchers have shown that expression levels of p15 INK4B, altered by epigenetic modification, ha an impact on disease progression in multiple myeloma (6). Similarly, studies in pancreatic cancer ha shown hypermethylation and epigenetic silencing of p15 INK4B, p16 INK4A, and CDK inhibitors p21 and p27kip1 (7).							
Background References 1. Kim, W.Y. and Sharpless, N.E. (2006) Cell 127, 265-75.   2. Hannon, G.J. and Beach, D. (1994) Nature 371, 257-61.   3. Thillainadesan, G. et al. (2012) Mol Cell 46, 636-49.   4. Wolff, L. and Bies, J. (2013) Blood Cells Mol Dis 50, 227-31.   5. Humeniuk, R. et al. (2013) Blood Cancer J 2, e99.   6. Li, J. et al. (2014) Drug Des Devel Ther 8, 2129-36.   7. Li, G. et al. (2012) Mol Med Rep 5, 1106-10.								
Species Reactivi	ty	Species reactivity is de	termined by testing	g in at least one approved	d application (e.g., v	western blot).		
Western Blot Bu	ıffer	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 Ke	y	W: Western Blotting						
Cross-Reactivity	y Key	H: Human						
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