e at -20C	EI24 (D3F6Z) Rabbit mAb								
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com						
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #O14681	Entrez-Gene Id: 9538		
Product Usage Information		pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:200			
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. Do not aliquot the antibody.						
Specificity / Sensitivity		EI24 (D3F6Z) Rabbit mAb recognizes endogenous levels of total EI24 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala31 of human El24 protein.						
Background Background References		 Etoposide-induced 2.4 mRNA (EI24)/p53-induced gene 8 (PIG8) was identified as a DNA damage response gene induced by etoposide in a p53 dependent manner with roles in growth suppression and apoptosis (1-3). As a pro-apoptotic gene, some evidence suggests that EI24 functions as a tumor suppressor gene in cases such as breast and cervical cancer (4-6). The mechanism of EI24 is still unclear, but studies have shown that it can localize to the endoplasmic reticulum and associate with Bcl-2 and could regulate apoptosis through regulation of Bcl-2 function (7). Liver-specific deletions of EI24 in mice show impaired autophagic flux, suggesting that it may also play a role in regulating basal autophagy (8). EI24 was shown to be involved in the autophagic degradation of many RING E3 ligases (9). In addition, decreased expression of EI24 in epithelial tumor cells induced epithelial-to-mesenchymal transition (EMT) (10). Together these studies suggest multiple mechanisms for EI24 to regulate tumor progression that includes regulation of apoptosis, autophagy, and EMT. Polyak, K. et al. (1997) <i>Nature</i> 389, 300-5. Lehar, S.M. et al. (2001) <i>Oncogene</i> 12, 1181-7. Gu, Z. et al. (2001) <i>Oncogene</i> 20, 7753-60. Sinha, S. et al. (2011) <i>Mol Oncol</i> 5, 454-64. Mazumder Indra, D. et al. (2011) <i>Int J Cancer</i> 129, 1859-71. Zhao, Y.G. et al. (2005) <i>Cancer Res</i> 65, 2125-9. Zhao, Y.G. et al. (2012) <i>J Biol Chem</i> 287, 42053-63. Devkota, S. et al. (2013) <i>Oncotarget</i> 4, 2383-96. 						
Species Reactivity	Spe	ecies reactivity is determ	nined by testing	g in at least one approve	ed application (e.g., wes	stern blot).		
Western Blot Buffer		MPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,).1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IP: Immunoprecipitation						
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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El24 (D3F6Z) Rabbit mAb (#42328) Datasheet Without Images Cell Signaling Technology

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