Revision 1			
RUNX3/AML2 (D9K6L) Mouse mAb	T E	Cell Signaling TECHNOLOGY*	
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Applications: W, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 43-48	Source/Isotype: Mouse IgG2b	UniProt ID: #Q13761	Entrez-Gene Id: 864	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		Dilution 1:1000 1:50 1:400 - 1:800			
Storage				7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than ο not aliquot the antibody.			
Specificity/Sen	sitivity	RUNX3/AML2 (D9K6L) Mouse mAb recognizes endogenous levels of total RUNX3 protein.					
Source / Purific	cation		Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Gly217 of human Runx3 protein.				
Background	kground Runt-related transcription factor 3 (RUNX3, AML2), a member of the Runt family of transcription factors, plays an important role in the suppression of gastric epithelium cell proliferation (1), dor root ganglia neurogenesis (2), and T cell differentiation (3,4). RUNX3 is also involved in caspase-3 dependent apoptosis (5). Protein complexes containing RUNX3 and various transcription factors as Smads or β-catenin/TCF4, have tumor suppressor activity and regulate downstream target ge transcription (6,7). While typically localized to the nucleus, RUNX3 can be tyrosine phosphorylate located in the cytoplasm of many cancer cells. This mislocalization of RUNX3 abolishes its tumor suppressor function and contributes to tumorigenesis (8). Research studies indicate that gene si or protein mislocalization inactivates RUNX3 in more than 80% of gastric cancers and other cance types (1,9,10).				ation (¹), dorsal in caspase-3- otion factors, such am target gene hosphorylated and es its tumor that gene silencing		
Background Re	eferences	 Inoue, K. et al. (200 Taniuchi, I. et al. (210 Woolf, E. et al. (200 Zhai, F.X. et al. (201 Chi, X.Z. et al. (2008) Goh, Y.M. et al. (2008) Blyth, K. et al. (2009) 	I. Li, Q.L. et al. (2002) <i>Cell</i> 109, 113-24. 2. Inoue, K. et al. (2002) <i>Nat Neurosci</i> 5, 946-54. 3. Taniuchi, I. et al. (2007) <i>Dev Biol</i> 303, 703-14. 5. Zhai, F.X. et al. (2007) <i>Dev Biol</i> 303, 703-14. 5. Zhai, F.X. et al. (2012) <i>J Cancer Res Clin Oncol</i> 138, 439-49. 5. Chi, X.Z. et al. (2005) <i>Mol Cell Biol</i> 25, 8097-107. 7. Ito, K. et al. (2008) <i>Cancer Cell</i> 14, 226-37. 8. Goh, Y.M. et al. (2005) <i>Nat Rev Cancer</i> 5, 376-87. 10. Ito, K. et al. (2005) <i>Cancer Res</i> 65, 7743-50.				
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Suffer		estern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 20 at 4°C with gentle shaking, overnight.				
Applications K	ey	W: Western Blotting I	Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				

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Cross-Reactivity Key

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