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Phospho-ALK (Tyr1096) (D96H9) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80 (NPM-ALK) 220 (ALK)	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UM73	Entrez-Gene Id: 238	
Product Usage Information		Application Western Blotting Immunoprecipitatior	ı		Dilution 1:1000 1:50		
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/Sens	sitivity	Phospho-ALK (Tyr1096) (D96H10) Rabbit mAb detects ALK only when phosphorylated at Tyr1096 (equivalent to Tyr156 of NPM-ALK).					
Species predict based on 100% homology		Mouse, Rat					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1096 of human ALK protein.					
Background		involved in embryoni of both ALK and the of discovered as a nucle have found that the f associated with anap ALK may be a crucial lymphomas (5). A distinct ALK oncoge like 4 (EML4) has bee cell line, with corresp short, amino-termina of ALK (6-8). Phosphorylation of A LC-MS/MS platform f the Tyr1096 site was	ic brain development (downstream effectors eophosmin (NPM)-ALK NPM-ALK fusion prote lastic lymphoma (4). F step for its mitogenic enic fusion protein inv n described in the res ionding fusion transcr al region of the microt LK on Tyr1096 was ide or phosphorylation site	sine kinase receptor fo (1-3). In ALK-expressing IRS-1, Shc, PLCy, and F fusion protein produc in is a constitutively ac Research literature sug activity and involved in rolving ALK and echino earch literature from a ipts present in some c ubule-associated prote entified at Cell Signalin the discovery. Phosphor ral other labs in select function (8,9).	g cells, PTN induces PI3 kinase (1). ALK w ed by a translocatic tive, oncogenic tyrc gests that activation n the pathogenesis derm microtubule-a non-small cell lung ases of lung adenoc ein EML4 is fused to g Technology using ylation of fusion pro	phosphorylation vas originally in (4). Investigators isine kinase in of PLCγ by NPM- of anaplastic associated protein is cancer (NSCLC) carcinoma. The the kinase domain PTMScan [®] , our otein NPM-ALK at	
Background Re	ferences	2. Iwahara, T. et al. (1 3. Morris, S.W. et al. (4. Morris, S.W. et al. (5. Bai, R.Y. et al. (1998 6. Rikova, K. et al. (200 7. Takeuchi, K. et al. (200 9. Turner, S.D. et al. (200	2001) J Biol Chem 276, 997) Oncogene 14, 43 1997) Oncogene 14, 2 1994) Science 263, 128 3) Mol Cell Biol 18, 695 07) Cell 131, 1190-203 2008) Clin Cancer Res 17) Nature 448, 561-6. 2007) Cell Signal 19, 74 al. (2007) Oncogene 2	19-49. 175-88. 31-4. 31-61. 3. 14, 6618-24. 40-7.			
Species Reactiv	ity	Species reactivity is d	letermined by testing	in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For wes TBS, 0.1% Tween® 20	tern blots, incubate m) at 4°C with gentle sh	nembrane with diluted aking, overnight.	primary antibody ir	1 5% w/v BSA, 1X	
Applications Ke	ey.	W: Western Blotting	IP: Immunoprecipitati	ion			

Cross-Reactivity Key	H: Human
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