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## Phospho-ALK (Tyr1096) (D96H9) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80 (NPM-ALK) 220 (ALK)	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9UM73	Entrez-Gene Id: 238	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitatior	ı		<b>Dilution</b> 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 <sup>®</sup> , 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.	<b>W:</b> Western Blotting	<b>IP:</b> Immunoprecipitati	ion			

Cross-Reactivity Key	H: Human
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