

## Phospho-ALK (Tyr1282/1283) (D39B2) Rabbit mAb



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Applications: W, IP	Reactivity: 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 Immunoprecipitatio	n		<b>Dilution</b> 1:1000 1:100	
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	itivity	Phospho-ALK (Tyr1282/1283) (D39B2) Rabbit mAb detects ALK only when phosphorylated at Tyr1282/1283 (equivalent to Tyr342/343 of NPM-ALK). The antibody may cross-react with other overexpressed phospho-tyrosine proteins such as EGFR.				
Species predicte based on 100% homology		Mouse, Rat, Monkey				
Source / Purifica	ation			inizing animals with a s r1282/1283 of human /		eptide
Background		involved in embryon of both ALK and the discovered as a nucle have found that the associated with anap ALK may be a crucial lymphomas (5). A distinct ALK oncog like 4 (EML4) has bee cell line, with corresp short, amino-termin. of ALK (6-8). Phosphorylation of A PhosphoScan <sup>®</sup> , CST	ic brain development ( downstream effectors eophosmin (NPM)-ALK NPM-ALK fusion prote plastic lymphoma (4). F step for its mitogenic enic fusion protein inv en described in the res bonding fusion transcr al region of the microt ALK at Tyr1282/1283 w s LC-MS/MS platform f	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 olving ALK and echino- earch literature from a ipts present in some ca ubule-associated prote as identified at Cell Sig or phosphorylation site noma cell lines and tun	g cells, PTN induces PI3 kinase (1). ALK we ed by a translocatio tive, oncogenic tyro gests that activation in the pathogenesis derm microtubule-a non-small cell lung ases of lung adenoc ein EML4 is fused to naling Technology ( e discovery. Phosph	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
Background Ref	ferences	2. Iwahara, T. et al. ( 3. Morris, S.W. et al. ( 4. Morris, S.W. et al. ( 5. Bai, R.Y. et al. (199 6. Rikova, K. et al. (20 7. Takeuchi, K. et al. (	2001) <i>J Biol Chem</i> 276, 1997) <i>Oncogene</i> 14, 43 1997) <i>Oncogene</i> 14, 2 1994) <i>Science</i> 263, 124 8) <i>Mol Cell Biol</i> 18, 695 007) <i>Cell</i> 131, 1190-203 (2008) <i>Clin Cancer Res</i> 07) Nature 448, 561-6.	19-49. 175-88. 31-4. 51-61. 8.		
Species Reactiv	ity	Species reactivity is o	letermined by testing	in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	ıffer		stern blots, incubate m 0 at 4°C with gentle sh	nembrane with diluted laking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X
Applications Ke	у	W: Western Blotting	IP: Immunoprecipitati	ion		
Cross-Reactivity	/ Кеу	H: Human				

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