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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80 (NPM-ALK), 220 (ALK)	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q9UM73	Entrez-Gene Id: 238
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation	n		<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM so 20°C. Do not aliquot		. 150 mM NaCl, 100 μg/	ml BSA and 50% gly	/cerol. Store at –
Specificity/Sen	sitivity	Phospho-ALK (Tyr1278/1282/1283) Antibody detects ALK only when phosphorylated at Tyr1278/1282/1283, which is equivalent to Tyr338/342/343 of NPM-ALK. This antibody might also have slight reactivity toward ALK when it is phosphorylated at Tyr1283 alone. This antibody also reacts with leukocyte tyrosine kinase (LTK) phosphorylated at Tyr672/676/677.				
Species predict based on 100% homology		Mouse, Rat				
Source / Purific	ation	corresponding to res		nunizing animals with a r1278/1282/1283 of hu hromatography.		
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-termina of ALK (6-8). Phosphorylation of A using PhosphoScan <sup>®</sup>	ic brain development downstream effectors eophosmin (NPM)-ALK NPM-ALK fusion prote plastic lymphoma (4). I step for its mitogenic enic fusion protein inv en described in the res bonding fusion transci al region of the microt NLK on Tyr1278/Tyr128	sine kinase receptor fc (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 volving ALK and echino- earch literature from a ripts present in some ca ubule-associated prote 82/Tyr1283 was identifi- form for phosphorylati elect carcinoma cell line	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 adenoce in EML4 is fused to ed at Cell Signaling on site discovery. Pl	phosphorylation vas originally n (4). Investigators sine kinase n of PLCγ by NPM- of anaplastic associated protein cancer (NSCLC) carcinoma. The the kinase domain Technology (CST) hosphorylation of
Background Re	ferences	<ol> <li>Iwahara, T. et al. (1</li> <li>Morris, S.W. et al. (1</li> <li>Morris, S.W. et al. (1</li> <li>Bai, R.Y. et al. (199)</li> <li>Rikova, K. et al. (20</li> <li>Takeuchi, K. et al. (20)</li> </ol>	2001) <i>J Biol Chem</i> 276, 1997) <i>Oncogene</i> 14, 43 1997) <i>Oncogene</i> 14, 2 1994) <i>Science</i> 263, 12 8) <i>Mol Cell Biol</i> 18, 699 107) <i>Cell</i> 131, 1190-203 2008) <i>Clin Cancer Res</i> 07) Nature 448, 561-6.	39-49. 175-88. 81-4. 51-61. 3.		
Species Reactiv	/ity	Species reactivity is c	letermined by testing	in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer		stern blots, incubate n 0 at 4°C with gentle sł	nembrane with diluted naking, overnight.	primary antibody ir	ı 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting	<b>IP:</b> Immunoprecipitat	ion		

Cross-Reactivity Key	H: Human
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