4678

Phospho-ALK (Tyr1507) (D6F1V) Rabbit



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

Applications: W, IP, IF-IC, FC-FP	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 Immunoprecipitatio Immunofluorescenc Flow Cytometry (Fixe	e (Immunocytochemis	try)		Dilution 1:1000 1:100 1:400 1:200	
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/Sen	sitivity	Phospho-ALK (Tyr1507) (D6F1V) Rabbit mAb recognizes endogenous levels of ALK protein only when phosphorylated at Tyr1507 (equivalent to Tyr567 of NPM-ALK).					
Species predict based on 100% homology	ed to react sequence	Mouse, Rat					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1507 of human ALK protein.					
Background		involved in embryor of both ALK and the discovered as a nucl have found that the associated with anay ALK may be a crucia lymphomas (5). A distinct ALK oncog like 4 (EML4) has bea cell line, with corresy short, amino-termin of ALK (6-8). Phosphorylation of <i>I</i> LC-MS/MS platform	ic brain development (downstream effectors eophosmin (NPM)-ALK NPM-ALK fusion prote plastic lymphoma (4). F I step for its mitogenic enic fusion protein inv en described in the res ponding fusion transcr al region of the microt ALK on Tyr1507 was ide used for phosphorylati has been shown to be	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 ir olving ALK and echinor earch literature from a ipts present in some ca ubule-associated prote entified at Cell Signalin on site discovery (6). P	g cells, PTN induces PI3 kinase (1). ALK v ed by a translocatio tive, oncogenic tyro gests that activatio n the pathogenesis derm microtubule- non-small cell lung ases of lung adeno- in EML4 is fused to g Technology using hosphorylation of <i>i</i>	s phosphorylation vas originally on (4). Investigators osine kinase n of PLCγ by NPM- of anaplastic associated protein g cancer (NSCLC) carcinoma. The o the kinase domain g PhosphoScan [®] , an ALK at Tyr1507	
Background Re	ferences	 Iwahara, T. et al. (Morris, S.W. et al. Morris, S.W. et al. Bai, R.Y. et al. (199 Rikova, K. et al. (20 Takeuchi, K. et al. Soda, M. et al. (20 Turner, S.D. et al. (20 	2001) J Biol Chem 276, 1997) Oncogene 14, 43 (1997) Oncogene 14, 2 (1994) Science 263, 124 8) Mol Cell Biol 18, 695 007) Cell 131, 1190-203 (2008) Clin Cancer Res 07) Nature 448, 561-6. 2007) Cell Signal 19, 74 al. (2007) Oncogene 2	19-49. 175-88. 31-4. 1-61. 1. 14, 6618-24. 40-7.			
Species Reactiv	ity	Species reactivity is o	determined by testing	in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer		stern blots, incubate m	nembrane with diluted	primary antibody i	n 5% w/v BSA, 1X	

TBS, 0.1% Tween[®] 20 at 4°C with gentle shaking, overnight.

Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	H: Human			
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