#4144 Store at -20C

Phospho-ALK (Tyr1078) Antibody

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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80 (NPM-ALK) 220 (ALK)	Source: Rabbit	UniProt ID: #Q9UM73	Entrez-Gene Id: 238
Product Usage Information	We	pplication estern Blotting munoprecipitation			Dilution 1:1000 1:50	
Storage		oplied in 10 mM sodiu C. Do not aliquot the), 150 mM NaCl, 10	0 μg/ml BSA and 50% gl	ycerol. Store at –
Specificity / Sensit	to T	Phospho-ALK (Tyr1078) Antibody detects ALK only when phosphorylated at Tyr1078, which is equivalent to Tyr138 in NPM-ALK. This antibody may also cross-react with other overexpressed tyrosine phosphorylated proteins.				
Species predicted react based on 100 sequence homolog	0%	use, Rat				
Source / Purification	to re		Tyr1078 of human		h a synthetic phosphope dies are purified by prote	
Background	invo both disc hav ass ALk lym A di 4 (E line ami 8). Pho Pho	olved in embryonic bi h ALK and the downs covered as a nucleop re found that the NPM ociated with anaplas K may be a crucial st phomas (5). istinct ALK oncogenic EML4) has been deso , with corresponding ino-terminal region of osphorylation of ALK	rain development (1 stream effectors IRS phosmin (NPM)-ALK M-ALK fusion protein tic lymphoma (4). R ep for its mitogenic c fusion protein invo cribed in the researd fusion transcripts p f the microtubule-as on Tyr1078 was ide _C-MS/MS platform	-3). In ALK-express 5-1, Shc, PLCγ, and 5 fusion protein pro- in is a constitutively research literature s activity and involve solving ALK and echi- ch literature from a resent in some cas sociated protein El- entified at Cell Sign- for phosphorylation	or for pleiotrophin (PTN), sing cells, PTN induces p d PI3 kinase (1). ALK was duced by a translocation active, oncogenic tyrosir suggests that activation c d in the pathogenesis of noderm microtubule-ass non-small cell lung cance es of lung adenocarcinor ML4 is fused to the kinas aling Technology (CST) un n site discovery. Phosphor nors.	hosphorylation of s originally (4). Investigators he kinase of PLCγ by NPM- anaplastic ociated protein like er (NSCLC) cell ma. The short, e domain of ALK (6- using
Background Refer	2. Iv 3. M 4. M 5. B 6. R 7. T	Gioica, G.E. et al. (20 wahara, T. et al. (199 Morris, S.W. et al. (199 Morris, S.W. et al. (199 Bai, R.Y. et al. (1998) Rikova, K. et al. (2007) Gakeuchi, K. et al. (2007)	7) Oncogene 14, 4 97) Oncogene 14, 2 94) Science 263, 1 Mol Cell Biol 18, 6 7) Cell 131, 1190-20 08) Clin Cancer Re	39-49. 2175-88. 281-4. 951-61. 93. s 14, 6618-24.		
Species Reactivity	Spec	cies reactivity is dete	rmined by testing in	at least one appro	ved application (e.g., we	stern blot).
Western Blot Buffe	er					

1/1/24, 10:45 AM	Phospho-ALK (Tyr1078) Antibody (#4144) Datasheet Without Images Cell Signaling Technology IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	WB: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 	
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