e at -20C	ALK (D5	F3 [®]) XP [®] R	abbit mAb				
Store						Orders:	877-616-CELL (2355) orders@cellsignal.com
						Support:	877-678-TECH (8324)
#3633						Web:	info@cellsignal.com cellsignal.com
#3					3 Trask Lane D	anvers Massac	husetts 01923 USA
For Research Use Only. Not for Use in Diagnostic Procedures.							
	lications: S. IP. IHC-P.	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 220 (ALK), 80 (NPM-	Source/Isotype: Rabbit IgG	UniProt ID: #O9UM73	Entrez-Gene Id: 238

W, W-S, IP, IHC-P, H FC-FP	A) (ALK), 80 (NPM- LK), 117 (EML4- K v1), 86 (EML4- ALK v3)	Rabbit IgG	#Q9UM73	238
Product Usage Information	Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Finder) Flow Cytometry (Fixed/Pe	•		Dilution 1:2000 1:10 - 1:50 1:100 1:125 - 1:5 1:400 - 1:6	500
Storage	Supplied in 10 mM sodiur 0.02% sodium azide. Stor				and less than
Specificity/Sensitivity	ALK (D5F3 [®]) XP [®] Rabbit m proteins, such as EML4-Al react with other family m	K variants and NP	nous levels of total A-ALK, even at low l	ALK protein as well as A evels. This antibody doo	ALK fusion es not cross-
Source / Purification	Monoclonal antibody is p residues in the carboxy te			ecombinant protein cor	responding to
Background	Anaplastic lymphoma kin. involved in embryonic bra of both ALK and the dowr discovered as a nucleoph have found that the NPM associated with anaplastic ALK may be a crucial step lymphomas (5). A distinct ALK oncogenic t like 4 (EML4) has been de cell line, with correspondi short, amino-terminal reg of ALK (6-8). Investigators have identif (TFG) and KIF5B, which ha protein has been found ir	ain development (1- nstream effectors IF osmin (NPM)-ALK fu -ALK fusion protein c lymphoma (4). Res for its mitogenic ac fusion protein invol scribed in the resea ng fusion transcrip jion of the microtuk fied ALK translocatio ave also been assoc	3). In ALK-expressir (S-1, Shc, PLCy, and usion protein produ- is a constitutively a search literature suc- tivity and involved ving ALK and echino rch literature from ts present in some o- pule-associated prot- pos with other fusio iated with NSCLC (6	g cells, PTN induces ph PI3 kinase (1). ALK was ced by a translocation (ctive, oncogenic tyrosir ggests that activation o in the pathogenesis of oderm microtubule-ass a non-small cell lung ca cases of lung adenocard tein EML4 is fused to th n partners, such as TRM	osphorylation originally 4). Investigators the kinase f PLCγ by NPM- anaplastic ociated protein incer (NSCLC) cinoma. The e kinase domain
Background References	 Stoica, G.E. et al. (2001) Iwahara, T. et al. (1997) Morris, S.W. et al. (1997) Morris, S.W. et al. (1994) Bai, R.Y. et al. (1998) <i>Ma</i> Rikova, K. et al. (2007) <i>A</i> Takeuchi, K. et al. (2009) Palmer, R.H. et al. (2009) Mino-Kenudson, M. et al. (2000) Kwak, E.L. et al. (2000) 	Oncogene 14, 439-) Oncogene 14, 217) Science 263, 1281 bl Cell Biol 18, 6951- Cell 131, 1190-203.) Clin Cancer Res 14 ature 448, 561-6.) Clin Cancer Res 15) Biochem J 420, 3 2009) J Clin Oncol 27) Clin Cancer Res 15 ; al. (2010) Clin Cancer	49. '5-88. -4. 61. 4, 6618-24. 5, 3143-9. 45-61. 7, 4232-5. , 5216-23. <i>cer Res</i> 16, 1561-71.		

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	H: Human			
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