

Store at -20°C
#8895

ALK (C26G7) Rabbit mAb (Biotinylated)



Cell Signaling
TECHNOLOGY®

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80 (NPM-ALK), 220 (ALK)	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UM73	Entrez-Gene Id: 238
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	ALK (C26G7) Rabbit mAb (Biotinylated) detects endogenous levels of total ALK protein. This antibody does not cross-react with other family members.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant fusion protein surrounding His1475 of human ALK protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated ALK (C26G7) Rabbit mAb #3333.	

MW (kDa)	80 (NPM-ALK), 220 (ALK)
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Background	<p>Anaplastic lymphoma kinase (ALK) is a tyrosine kinase receptor for pleiotrophin (PTN), a growth factor involved in embryonic brain development (1-3). In ALK-expressing cells, PTN induces phosphorylation of both ALK and the downstream effectors IRS-1, Shc, PLCγ, and PI3 kinase (1). ALK was originally discovered as a nucleophosmin (NPM)-ALK fusion protein produced by a translocation (4). Investigators have found that the NPM-ALK fusion protein is a constitutively active, oncogenic tyrosine kinase associated with anaplastic lymphoma (4). Research literature suggests that activation of PLCγ by NPM-ALK may be a crucial step for its mitogenic activity and involved in the pathogenesis of anaplastic lymphomas (5).</p> <p>A distinct ALK oncogenic fusion protein involving ALK and echinoderm microtubule-associated protein like 4 (EML4) has been described in the research literature from a non-small cell lung cancer (NSCLC) cell line, with corresponding fusion transcripts present in some cases of lung adenocarcinoma. The short, amino-terminal region of the microtubule-associated protein EML4 is fused to the kinase domain of ALK (6-8).</p>
Background References	<ol style="list-style-type: none"> 1. Stoica, G.E. et al. (2001) <i>J Biol Chem</i> 276, 16772-9. 2. Iwahara, T. et al. (1997) <i>Oncogene</i> 14, 439-49. 3. Morris, S.W. et al. (1997) <i>Oncogene</i> 14, 2175-88. 4. Morris, S.W. et al. (1994) <i>Science</i> 263, 1281-4. 5. Bai, R.Y. et al. (1998) <i>Mol Cell Biol</i> 18, 6951-61. 6. Rikova, K. et al. (2007) <i>Cell</i> 131, 1190-203. 7. Takeuchi, K. et al. (2008) <i>Clin Cancer Res</i> 14, 6618-24. 8. Soda, M. et al. (2007) <i>Nature</i> 448, 561-6.

Species Reactivity	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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
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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