56,

ALK (C26G7) Rabbit mAb (Sepharose[®] Bead Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: IP	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	Product UsageApplicationInformationImmunoprecipitation			Dilution 1:20				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store Do not aliquot the antibodies.				ol. Store at –20°C.		
Specificity/Sensitivity		ALK (C26G7) Rabbit mAb (Sepharose [®] Bead Conjugate) 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 amino acid 1475 of human ALK.						
Description		This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. ALK (C26G7) Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for immunoprecipitation assays. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated ALK (C26G7) Rabbit mAb #3333.						
Background		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, PLCy, 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 PLCy by NPM- ALK may be a crucial step for its mitogenic activity and involved in the pathogenesis of anaplastic lymphomas (5). 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).						
Background Re	eferences	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) Nature 448, 561-6.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Applications K	ey	IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human						
Trademarks ar	Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				logy, Inc.			
		U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.						
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.