#8955 store at -20C



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.

Ras (D2C1) Rabbit mAb

Applications: W, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P01116	Entrez-Gene Id: 3845	
Product Usage Information	2	ApplicationDilutionWestern Blotting1:1000Simple Western™1:50 - 1:250					
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/Ser	Censitivity Ras (D2C1) Rabbit mAb recognizes endogenous levels of total Ras protein, specifically K-Ras This antibody does not cross-react with H-Ras or R-Ras.			y K-Ras and N-Ras.			
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to hur K-Ras protein.				n specific to human	
Background		The 21 kDa guanine-nucleotide binding proteins (K-Ras, H-Ras, and N-Ras) cycle between active (GTP- bound) and inactive (GDP-bound) forms (1). Receptor tyrosine kinases and G protein-coupled receptors activate Ras, which then stimulates the Raf-MEK-MAPK pathway (2-4). GTPase-activating proteins (GAPs) normally facilitate the inactivation of Ras. However, research studies have shown that in 30% of human tumors, point mutations in Ras prevent the GAP-mediated inhibition of this pathway (5). The most common oncogenic Ras mutation found in tumors is Gly12 to Asp12 (G12D), which prevents Ras inactivation, possibly by increasing the overall rigidity of the protein (5,6).					
Background R	eferences	1. Boguski, M.S. and McCormick, F. (1993) <i>Nature</i> 366, 643-54. 2. Avruch, J. et al. (1994) <i>Trends Biochem Sci</i> 19, 279-83. 3. Buday, L. and Downward, J. (1993) <i>Cell</i> 73, 611-20. 4. Huang, D.C. et al. (1993) <i>Mol Cell Biol</i> 13, 2420-31. 5. Bos, J.L. (1989) <i>Cancer Res</i> 49, 4682-9. 6. Ma, J. and Karplus, M. (1997) <i>J Mol Biol</i> 274, 114-31.					
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot E	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 K	ey	W: Western Blotting W-S: Simple Western™					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey					
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for	
Limited Uses		the following terms an terms and conditions	oply to Products pro that are in addition	a writing signed by a leg ovided by CST, its affiliat to, or different from, th y authorized representa	es or its distributors ose contained here	s. Any Customer's in, unless	
		approved, cleared, or purpose. Customer sh any manner that confl	licensed by the FDA all not use any Pro licts with its labeling	se Only or a similar labe or other regulatory for duct for any diagnostic o g statement. Products so research and developme	eign or domestic er or therapeutic purp old or licensed by C	itity, for any ose, or otherwise in ST are provided 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 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.