3/23/24, 10:58 AM Revision 1

Ras (27H5) Rabbit mAb	T C	Cell Signaling TECHNOLOGY®	
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For Research Use Onl	Not for Use in	Diagnostic	Procedures
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Applications: WB	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P01112, #P01111, #P01116	Entrez-Gene Id: 3265, 4893, 3845
Product Usage Information		plication			Dilution	
	Wes	stern Blotting			1:1000	
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 / Sensit	t ivity Ras	Ras (27H5) Rabbit mAb detects endogenous levels of total K-Ras, H-Ras and N-Ras proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human K-Ras.				ponding to
Background	bour activ (GAF hum com	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 Refer	2. Av 3. Bu 4. Hu 5. Bo	 Boguski, M.S. and McCormick, F. (1993) <i>Nature</i> 366, 643-54. Avruch, J. et al. (1994) <i>Trends Biochem Sci</i> 19, 279-83. Buday, L. and Downward, J. (1993) <i>Cell</i> 73, 611-20. Huang, D.C. et al. (1993) <i>Mol Cell Biol</i> 13, 2420-31. Bos, J.L. (1989) <i>Cancer Res</i> 49, 4682-9. Ma, J. and Karplus, M. (1997) <i>J Mol Biol</i> 274, 114-31. 				
Species Reactivity	Speci	es reactivity is det	ermined by testing	g in at least one appro	ved application (e.g., wes	tern blot).
Western Blot Buffe		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 k	X: Xe	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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