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Ras (G12D Mutant Specific) (D8H7) Rabbit



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Applications: W, W-S	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 21	Source/Isotype: Rabbit IgG	UniProt ID: #P01111, #P01112, #P01116	Entrez-Gene Id: 4893, 3265, 3845
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10 - 1:50	
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. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Ras (G12D Mutant Specific) (D8H7) Rabbit mAb recognizes endogenous levels of Ras G12D mutant protein.				
Species predicto based on 100% homology		Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to G12D mutant sequence of human Ras protein.				
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 References		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 Reactiv	ity	Species reactivity is det	ermined by testing	in at least one appro	ved application (e.g., w	vestern 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™				
Cross-Reactivity Key		H: Human				
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