MATK/CHK (D2I6U) Rabbit mAb





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 52,56	Source/Isotype: Rabbit IgG	UniProt ID: #P42679	Entrez-Gene Id: 4145	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
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/Sen	sitivity	MATK/CHK (D2I6U) Rabbit mAb recognizes endogenous levels of total MATK/CHK protein.					
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu97 of human MATK/CHK protein.					
Background		MATK/CHK (CTK, NTK and HYL) is a non-receptor tyrosine kinase structually and functionally homologous to Csk kinase. The kinase was identified through molecular cloning from multiple tissues by different research groups. Like Csk, MATK/CHK has a N-terminal SH3 domain, followed by an SH2 domain and a C-terminal catalytic kinase domain (1-4). MATK/CHK inhibits Src family members in several different ways. First, it directly phosphorylates the inhibitory C-terminal tyrosine of Src (as well as other Src family members). This induces a Src protein conformational change from the active to inactive state (2,4). Second, it binds directly to activated Src and induces a conformational change to the inactive state (5,6). The SH2 domain of MATK/CHK directly interacts with the phosphorylated tyrosine of activated receptor tyrosine kinases, such as ErbB-2 and c-Kit, to inhibit receptor function (7- 9). MATK/CHK negatively regulates tumor cell growth, migration and invasion (10-13). Decreased expression of the protein has been correlated with brain tumors as well as colon cancers in research studies (14-15).					
Background Re	ferences	 Sakano, S. et al. (1994) Oncogene 9, 1155-61. Chow, L.M. et al. (1994) Proc Natl Acad Sci U S A 91, 4975-9. Bennett, B.D. et al. (1994) J Biol Chem 269, 1068-74. Klages, S. et al. (1994) Proc Natl Acad Sci U S A 91, 2597-601. Chong, Y.P. et al. (2004) J Biol Chem 279, 20752-66. Chong, Y.P. et al. (2006) J Biol Chem 273, 4065-72. Kim, S. et al. (2002) J Biol Chem 277, 36465-70. Price, D.J. et al. (2005) Cancer Res 65, 2840-5. McShan, G.D. et al. (2002) Int J Oncol 21, 197-205. Fu, Y. et al. (2006) Int J Oncol 29, 1453-8. Dokmanovic, M. et al. (2014) Cancer Biol Ther 15, 1029-41. Zhu, S. et al. (2004) Cancer 101, 1018-27. 					
Species Reactiv	vity	Species reactivity is dete	ermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	у Кеу	H: Human					
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