Phospho-p56Dok-2 (Tyr351) Antibody



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Applications:	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 56 to 58	Source/Isotype: Rabbit	UniProt ID: #O60496	Entrez-Gene Id: 9046
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-p56Dok-2 (Tyr351) Antibody detects transfected levels of p56Dok-2 only when phosphorylated at tyrosine 351. The antibody does not cross-react with other tyrosine phosphorylated p62Dok family members.				
Species predic based on 100% homology		Mouse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr351 of mouse p56Dok-2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Docking proteins are substrates of tyrosine kinases that function in the recruitment and assembly of specific signal transduction molecules. There are five members in the p62dok family, p62Dok (Dok-1), p56Dok-2 (Dok-2, or DoK-R), Dok-3, Dok-4 and Dok-5 (1-3), characterized by the presence of an aminoterminal PH domain, a central PTB domain and numerous potential sites of tyrosine phosphorylation. Tyrosine phosphorylation of p56Dok-2 occurs upon stimulation of cells with a variety of stimuli, or in cells transformed by oncogenic tyrosine kinases such as v-Src and Bcr-Abl (3-5). Based on the presence of several signaling domains (PH, PTB domain, tyrosine residue and proline-rich regions), it has been proposed that the p62dok family act as docking proteins that link RTKs to signal transduction pathways. p56Dok-2 has been proposed to be a negative regulator of cytokine-induced proliferation in T cells (5). Phosphorylated Tyr351 of p56Dok-2 mediates an association with the SH2 domain of Nck (4).				
Background References		 Master, Z. et al. (2001) EMBO J. 20, 5919-5928. Grimm, J. et al. (2001) J. Cell. Biol. 154, 345-354. Cristofano, A. D. et al. (1998) J. Biol. Chem. 273, 4827-4830. Jones, N. and Dumont, D.J. (1999) Curr. Biol. 9, 1057-1060. Nemorin, J.G. and Duplay, P. (2000) J. Biol. Chem. 275, 14590-14597. 				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot 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 Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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