

Phospho-p56Dok-2 (Tyr351) Antibody



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or Research Use Only Applications:	y. Not for Use in Reactivity:	Diagnostic Proc Sensitivity:	edures. MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id	
WB	Н	Transfected Only	56 to 58	Rabbit	#O60496	9046	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		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 / Sens	tyro	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 predicted react based on 10 sequence homolo	00%	ise					
Source / Purificat	to re	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.					
Rackground	Doc	Docking proteins are substrates of tyrosine kinases that function in the recruitment and assembly of					

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

- 1. Master, Z. et al. (2001) EMBO J. 20, 5919-5928.
- 2. Grimm, J. et al. (2001) J. Cell. Biol. 154, 345-354.
- 3. Cristofano, A. D. et al. (1998) J. Biol. Chem. 273, 4827-4830.
- 4. Jones, N. and Dumont, D.J. (1999) Curr. Biol. 9, 1057-1060.
- 5. Nemorin, J.G. and Duplay, P. (2000) J. Biol. Chem. 275, 14590-14597.

Species Reactivity

Species reactivity is determined by testing in at least one approved 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

WB: Western Blotting

Cross-Reactivity Key

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 Dq: dog Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

Phospho-p56Dok-2 (Tyr351) Antibody (#3911) Datasheet Without Images Cell Signaling Technology

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