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PRODUCT DATASHEET

Anti-Dok1 (Ser-450), Phosphospecific Antibody

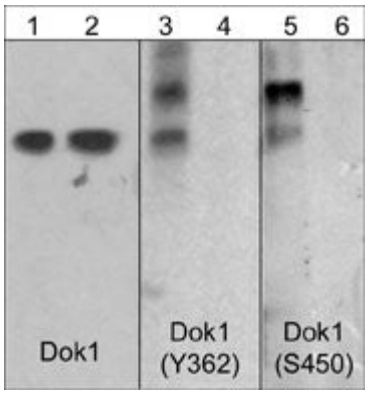
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:DP2181)
Conjugate	Unconjugated
Isotype	IgG
Clone	WB, E
Gene Name	DOK1
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-Dok1 (Ser-450) synthetic peptide (coupled to KLH) corresponds to amino acids surrounding serine 450 in human Dok1. This sequence is conserved in Dok1 from rat (Ser-449) and mouse (Ser-451). The site is not conserved in other Dok family members.
Specificity	This antibody was cross-adsorbed to an unphosphorylated Dok1 (Ser-450) peptide before affinity purification using phospho-Dok1 (Ser-450) peptide. The purified antibody detects a band at 62 kDa* corresponding to Dok1 in western blots of human Jurkat cells, but does not detect this band after lambda phosphatase treatment. Similar to Dok1 (Tyr-362) antibody, this antibody also detects an 80 kDa band that has not been identified.
Molecular Weight	62
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	Q99704 UniProt Summary: DOK proteins are enzymatically inert adaptor or scaffolding proteins. They provide a docking platform for the assembly of multimolecular signaling complexes. DOK1 appears to be a negative regulator of the insulin signaling pathway. Modulates integrin activation by competing with talin for the same binding site on ITGB3.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-450
NCBI Gene ID	1796

Product Images



Western blot image of Jurkat cells stimulated with calyculin A (100 nM, 30 min) (lanes 1-6) followed by lambda phosphatase (lanes 2 & 6) or alkaline phosphatase (lane 4) treatment. The blots were probed with anti-Dok1 (lanes 1 & 2), anti-Dok1 (Tyr-362) (lanes 3 & 4), and anti-Dok1 (Ser-450) (lanes 5 & 6).