Revision 1

Store at -20C

#3912

p62Dok Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	62	Rabbit	#Q99704	1796

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

p62Dok Antibody detects transfected levels of p62Dok proteins. The antibody does not cross-react with related proteins.

Species predicted to react based on 100% sequence homology

Mouse

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr398 of human p62Dok. Antibodies are purified by protein A and peptide affinity chromatography.

Background

p62Dok (Dok-1) is a major tyrosine-phosphorylated, GAP-associated, 60 kDa protein present within the cells transformed by different tyrosine kinases (1). p62Dok contains an amino-terminal pleckstrin homology domain potentially involved in phospholipid interaction and membrane targeting, a central putative phospho-tyrosine binding domain for interacting with tyrosine-phosphorylated proteins. There are numerous tyrosines in its carboxy-terminal region that are potential targets for tyrosine kinases. If phosphorylated, these tyrosines could serve as docking sites for proteins that contain an SH2 domain (2). Overexpression of p62Dok has been shown to inhibit Ras activity in human embryonic kidney 293 cells and B cell antigen receptor-mediated c-Fos promoter activation in an immature B cell line (3), suggesting that p62Dok may play a negative role in Ras signaling. Moreover, p62Dok overexpression may also inhibit insulin-stimulated Akt activation (4).

Background References

1. Yamanashi, Y. and Baltimore, D. (1997) *Cell* 88, 205-211.
2. Grimm, J. et al. (2001) *J. Cell Biol.* 154, 345-354.
3. Yoshida, K. et al. (2000) *J. Biol. Chem.* 275, 24945-24952.
4. Wick, M. J. et al. (2001) *J. Biol. Chem.* 276, 42843-42850.

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

W: Western Blotting

Cross-Reactivity Key

H: Human

Trademarks and Patents

Limited Uses

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