



**Mo Bi Tec**  
MOLECULAR BIOLOGISCHE TECHNOLOGIE

## PRODUCT INFORMATION

**ANTI-p62<sup>DOK</sup>**

**# 1107PR**

*TYROSINE KINASE SUBSTRATE*

### BACKGROUND

Signals from most growth factors and cytokines are transduced by receptor tyrosine kinases or non-receptor tyrosine kinases. Activated tyrosine kinases phosphorylate their substrates, which mediate the cellular response to extracellular stimuli. A long-sought major substrate termed p62<sup>DOK</sup> (downstream of tyrosine kinase) for many tyrosine kinases including c-kit, v-abl, v-Fps, v-Src, v-Fms, and activated EGF, PDGF, IGF, VEGF and insulin receptors was identified recently from human and mouse by several laboratories (1,2). Upon phosphorylation, p62<sup>DOK</sup> forms a complex with the ras GTPase-activating protein (RasGAP) (1-3). p62<sup>DOK</sup> represents a new family with very recently identified p62<sup>DOK</sup> (4).

### SOURCE

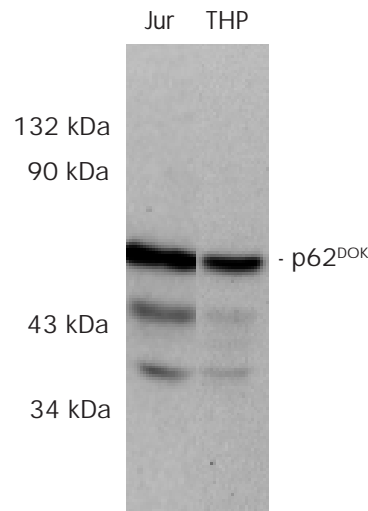
Rabbit anti-p62<sup>DOK</sup> polyclonal antibody was raised against a peptide corresponding to amino acids 425 to 439 of human p62<sup>DOK</sup> (1).

### APPLICATION

This polyclonal antibody can be used for detection of p62<sup>DOK</sup> expression by Western blot at 1:1000 to 1:2000 dilution. Whole cell lysate from Jurkat cells can be used as positive control and a 62 kDa band should be detected. This antibody is for research use only.

### STORAGE

It is supplied as affinity purified IgG with immunogenic peptide, 100 µg in 200 µl of PBS containing 0.02 % sodium azide. Store at -20 °C. Stable for one year at 2-8 °C.



Western blot analysis of whole cell lysate from Jurkat (Jur) and THP-1 (THP) cells with anti-DOK at 1:1000 dilution.

### REFERENCES

1. Carpino N, Wisniewski D, Strife A, Marshak D, Kobayashi R, Stillman B, Clarkson B p62<sup>DOK</sup>: a constitutively tyrosine-phosphorylated, GAP-associated protein in chronic myelogenous leukemia progenitor cells. *Cell* 1997;88:197-204.
2. Yamanashi Y, Baltimore D Identification of the Abl- and rasGAP-associated 62 KDa protein as a docking protein, Dok. *Cell* 1997;88:205-211.
3. Holland SJ, Gale NW, Gish GD, Roth RA, Songyang Z, Cantley LC, Henkemeyer M, Yancopoulos GD, Pawson T. Juxtamembrane tyrosine residues couple the Eph family receptor EphB2/Nuk to specific SH2 domain proteins in neuronal cells. *EMBO J* 1997;16:3877-3888.
4. Di Cristofano A, Carpino N, Dunant N, Friedland G, Kobayashi R, Strife A, Wisniewski D, Clarkson B, Pandolfi PP, Resh MD. Molecular cloning and characterization of p56(dok-2) defines a new family of RasGAP-binding proteins. *J Biol Chem* 1998;273:4827-4830. (RD0999)

MoBiTec # 1107PR 07/28/2000 For research use only. Not for use in diagnostic or therapeutic procedures.

MoBiTec GmbH, Lotzestraße 22a, D-37083 Göttingen, Phone: ++49 551-70 722- 0, Fax: ++49 551-70 722-22  
E-mail: info@mobitec.de or order@mobitec.de, Internet: www.mobitec.de