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Anti-p62^{dok}

CATALOG No.: PX130A SIZE: 100 µg

PX130B SIZE: 0.5 mg

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^{dok} (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^{dok} forms a complex with the ras GTPase-activating protein (RasGAP) (1-3). p62^{dok} represents a new family with very recently identified p56^{dok} (4)

SOURCE:

Rabbit anti-p62^{dok} polyclonal antibody was raised against a peptide corresponding to amino acids 425 to 439 of human p62^{dok} (1).

APPLICATION:

This polyclonal antibody can be used for detection of p62^{dok} 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 p62^{dok} in Jurkat (Jur) and THP-1 (THP) total cell lysates with anti-p62^{dok} at 1:1000 dilution.

REFERENCES:

1. Carpino N, Wisniewski D, Strife A, Marshak D, Kobayashi R, Stillman B, Clarkson B p62(dok): 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.

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.

Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com