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DOK1 Antibody

Catalog # ASC10005

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q99704
Other Accession	AAC51127, 1848277
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	52392
Conjugate	Unconjugated
Application Notes	DOK1 antibody can be used for detection of DOK1 expression by Western blot at 1 g/mL. A 62 kDa band should be detected. Antibody can also be used for immunocytochemistry starting at 2 g/mL. For immunofluorescence start at 10 g/mL.

Additional Information

Gene ID	1796
Other Names	DOK1 Antibody: TP1, TLP1, p240, TROVE1, VAULT2, Docking protein 1, Downstream of tyrosine kinase 1, telomerase-associated protein 1
Target/Specificity	TEP1;
Reconstitution & Storage	DOK1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	DOK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DOK1
Function	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.
Cellular Location	[Isoform 1]: Cytoplasm. Nucleus.
Tissue Location	Expressed in pancreas, heart, leukocyte and spleen. Expressed in both resting

and activated peripheral blood T-cells Expressed in breast cancer.

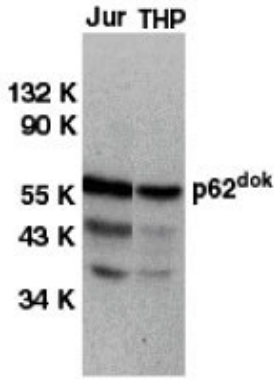
Background

DOK1 Antibody: 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 p62dok (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. Upon phosphorylation, p62dok forms a complex with the ras GTPase-activating protein (RasGAP). p62dok represents a new family with very recently identified p56dok.

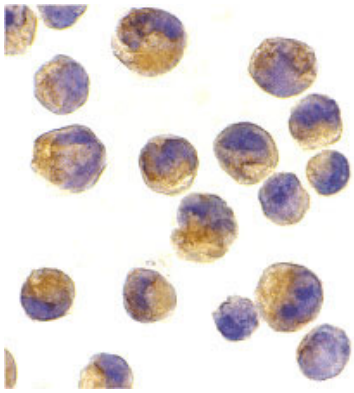
References

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.
Yamanashi Y, Baltimore D Identification of the Abl- and rasGAP-associated 62 KDa protein as a docking protein, Dok. Cell 1997;88:205-211.
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.
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.

Images

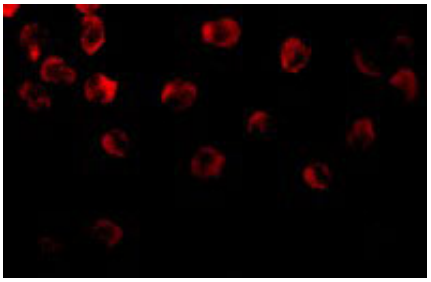


Western blot analysis of DOK1 in Jurkat (Jur) and THP-1 (THP) cell lysates with DOK1 antibody at 1 µg/mL.



Immunocytochemistry of DOK1 in K562 cells with DOK1 antibody at 2 µg/mL.

Immunofluorescence of DOK1 in K562 cells with DOK1 antibody at 10 µg/ml.



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