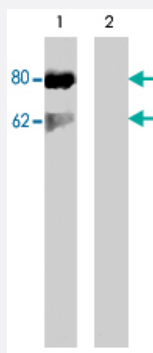


DOK1 (phospho S450) polyclonal antibody

Catalog # PAB7908

Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot of Jurkat cells stimulated with calyculin A (100 nM, 30 min) (lane 1) followed by lambda phosphatase (lane 2) treatment. The blots were probed with DOK1 (phospho S450) polyclonal antibody (Cat # PAB7908).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of DOK1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S450 of human DOK1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This sequence is conserved in Dok1 from rat (Ser-449) and mouse (Ser-451). The site is not conserved in other Dok family members.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot of Jurkat cells stimulated with calyculin A (100 nM, 30 min) (lane 1) followed by lambda phosphatase (lane 2) treatment. The blots were probed with DOK1 (phospho S450) polyclonal antibody (Cat # PAB7908).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — DOK1

Entrez GeneID[1796](#)**Gene Name**

DOK1

Gene Alias

MGC117395, MGC138860, P62DOK

Gene Description

docking protein 1, 62kDa (downstream of tyrosine kinase 1)

Omim ID[602919](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Docking protein 1 is constitutively tyrosine phosphorylated in hematopoietic progenitors isolated from chronic myelogenous leukemia (CML) patients in the chronic phase. It may be a critical substrate for p210(bcr/abl), a chimeric protein whose presence is associated with CML. Docking protein 1 contains a putative pleckstrin homology domain at the amino terminus and ten PXXP SH3 recognition motifs. Docking protein 2 binds p120 (RasGAP) from CML cells. It has been postulated to play a role in mitogenic signaling. [provided by RefSeq]

Other Designations

Downstream of tyrosine kinase 1|docking protein 1|docking protein 1 (downstream of tyrosine kinase 1)|docking protein 1, 62kD (downstream of tyrosine kinase 1)

Publication Reference

- [IkappaB kinase beta phosphorylates Dok1 serines in response to TNF, IL-1, or gamma radiation.](#)

Lee S, Andrieu C, Saltel F, Destaing O, Auclair J, Pouchkine V, Michelon J, Salaun B, Kobayashi R, Jurdic P, Kieff ED, Sylla BS.

PNAS 2004 Dec; 101(50):17416.

Application: WB, Human, HeLa, HEK 293T cells

- [c-Abl phosphorylates Dok1 to promote filopodia during cell spreading.](#)

Woodring PJ, Meisenhelder J, Johnson SA, Zhou GL, Field J, Shah K, Bladt F, Pawson T, Niki M, Pandolfi PP, Wang JY, Hunter T.

The Journal of Cell Biology 2004 May; 165(4):493.

- [Tyrosine phosphorylation of p62dok by p210bcr-abl inhibits RasGAP activity.](#)

Kashige N, Carpino N, Kobayashi R.

PNAS 2000 Feb; 97(5):2093.

Disease

- [Genetic Predisposition to Disease](#)
- [Leukemia](#)