

Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody
Catalog # AN1748**Specification****Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody - Product Information**

| | |
|-------------------|--------------------------|
| Primary Accession | Q99704 |
| Reactivity | Bovine |
| Host | Rabbit |
| Clonality | Rabbit Polyclonal |
| Isotype | IgG |
| Calculated MW | 52392 |

Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody - Additional Information

| | |
|--------------------|-------------|
| Gene ID | 1796 |
| Other Names | |
| p62DOK | |

Target/Specificity

Doks are a family of adaptor proteins that include six Dok proteins (Dok1 to Dok6), which have an N-terminal pleckstrin homology domain, a central phosphotyrosine binding domain, and a C-terminal region containing multiple tyrosine residues. When phosphorylated, these tyrosines can serve as docking sites for SH2 domain-containing proteins. Dok1 (p62dok) has been shown to bind Ras-GAP, Nck, and Csk. Several tyrosine phosphorylation sites have been identified for Dok1. One site, Tyr-362 (Tyr-361 mouse), is phosphorylated by c-Abl, is required for Nck binding, and may be critical for filopodia formation during fibroblast spreading on fibronectin. Alternatively, Dok1 activity is also regulated by serine phosphorylation. I κ B Kinase β phosphorylates several serine sites including Ser-450 in vitro, and TNF α , IL-1, and radiation treatment lead to phosphorylation of Ser-443, Ser-446, and Ser-450 in vivo. Phosphorylation of these serine sites may be required for Dok-mediated inhibition of MAPK signaling and stimulation of cell motility.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

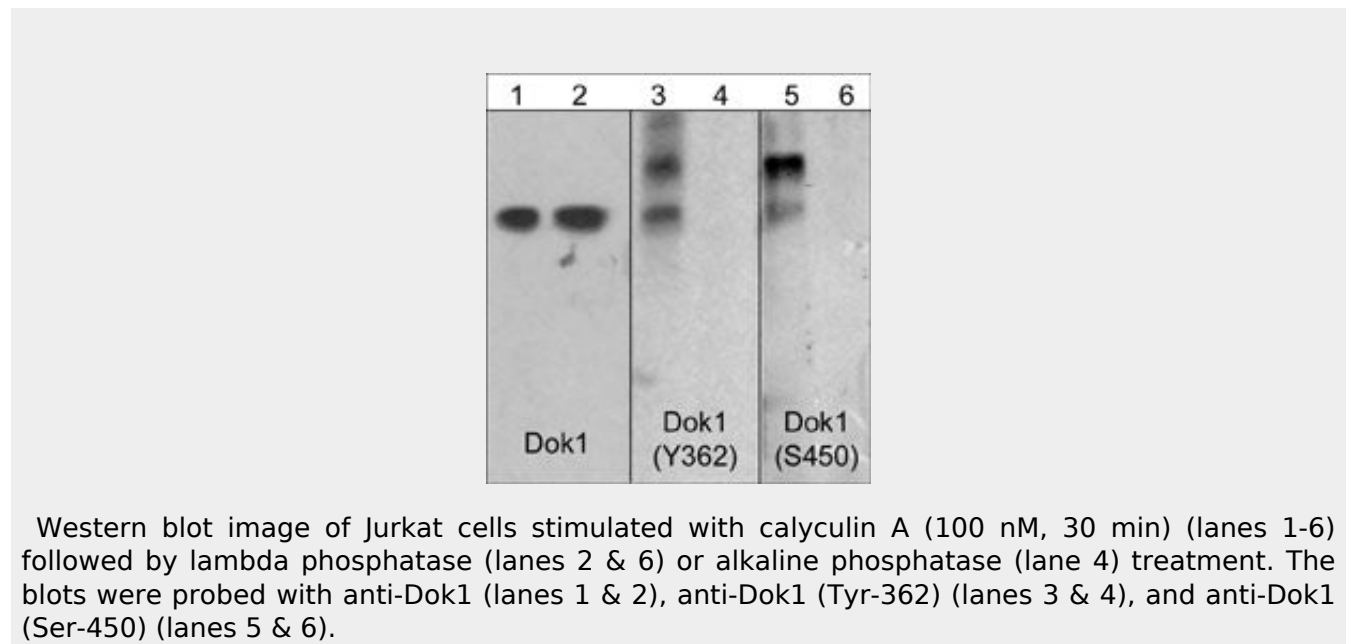
Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody - Images



Anti-Dok1 (Tyr-362) [Dok2 (Tyr-337)], Phosphospecific Antibody - Background

Doks are a family of adaptor proteins that include six Dok proteins (Dok1 to Dok6), which have an N-terminal pleckstrin homology domain, a central phosphotyrosine binding domain, and a C-terminal region containing multiple tyrosine residues. When phosphorylated, these tyrosines can serve as docking sites for SH2 domain-containing proteins. Dok1 (p62dok) has been shown to bind Ras-GAP, Nck, and Csk. Several tyrosine phosphorylation sites have been identified for Dok1. One site, Tyr-362 (Tyr-361 mouse), is phosphorylated by c-Abl, is required for Nck binding, and may be critical for filopodia formation during fibroblast spreading on fibronectin. Alternatively, Dok1 activity is also regulated by serine phosphorylation. IκB Kinase β phosphorylates several serine sites including Ser-450 in vitro, and TNFα, IL-1, and radiation treatment lead to phosphorylation of Ser-443, Ser-446, and Ser-450 in vivo. Phosphorylation of these serine sites may be required for Dok-mediated inhibition of MAPK signaling and stimulation of cell motility.