

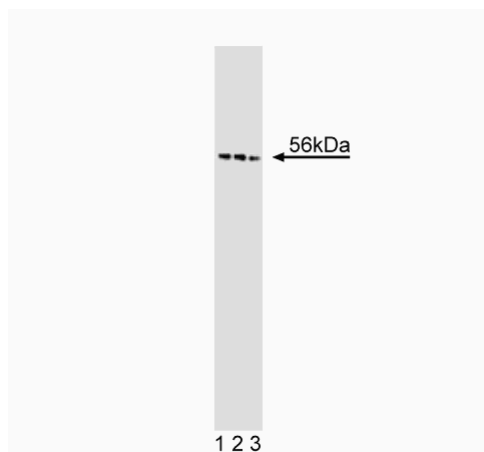
Technical Data Sheet

Purified Mouse Anti-p56[dok2]**Product Information**

Material Number:	611974
Size:	50 µg
Concentration:	250 µg/ml
Clone:	15/p56[dok2]
Immunogen:	Mouse p56[dok2] aa.314-412
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Rat
Target MW:	56 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

p62dok (downstream of tyrosine kinases) was identified as a target of protein tyrosine kinases. Following phosphorylation, p62[dok] binds to Ras GTPase activatin protein (RasGap), indicating a role for p62[dok] in intracellular signaling pathways. p62[dok] contains several motifs that signify its important interactions with signaling proteins. These domains include the pleckstrin homology (PH) domain in the amino terminus, numerous tyrosines in the C-terminus, and ten PXXP motifs. p56[dok2] (Dok-R, FRIP) is 35% identical to p62[dok], and contains a PH domain, a central Dok homology motif (DKH), multiple tyrosine phosphorylation sites, and six PXXP motifs. Similar to p62[dok], p56[dok2] binds p120 RasGap, and may act as an adaptor molecule between RasGap and receptor complexes. p56[dok2] is expressed in tissues of hematopoietic origin, and is phosphorylated by the cytokines, IL-2, IL-3, and IL-4. In addition, p56[dok2] may act as an adaptor signaling molecule for the endothelial-specific receptor tyrosine kinase (RTK), Tek/Tie2. Thus, p56[dok2] is a second member of the Dok RasGap-binding family of proteins, which act as adaptor molecules in RTK signaling.



Western blot analysis of p56[dok2] on MEL cell lysate.
Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-p56[dok2].

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Di Cristofano A, Carpino N, Dunant N. Molecular cloning and characterization of p56dok-2 defines a new family of RasGAP-binding proteins. 1998; 273(9):4827-4830.(Biology)

Jones N, Dumont DJ. The Tek/Tie2 receptor signals through a novel Dok-related docking protein, Dok-R.. *Oncogene*. 1998; 17(9):1097-1108.(Biology)

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