**Dok-1 (A-3): sc-6929**

**BACKGROUND**

Dok-1 associates with the Ras GTPase-activating protein (Ras GAP) upon tyrosine phosphorylation. Evidence suggests that Dok-1 (also designated p62dok) is a substrate of the constitutive tyrosine kinase activity of p210 Bcr-Abl, a fusion protein caused by the t(9;22) translocation and associated with chronic myelogenous leukemia. Dok-1, as well as the tyrosine kinase substrates IRS-1 and Cas, are members of a class of “docking” proteins which contain multiple tyrosine residues and putative SH2 binding sites. Dok-1 is suspected to be the substrate phosphorylated in response to stimulation by a number of growth factors, including PDGF, VEGF, Insulin and IGF. Dok-2 (also designated p56dok) has also been identified as a potential modulator of the effects of p210 Bcr-Abl.

**CHROMOSOMAL LOCATION**

Genetic locus: DOK1 (human) mapping to 2p13.1; Dok1 (mouse) mapping to 6 C3.

**SOURCE**

Dok-1 (A-3) is a mouse monoclonal antibody raised against amino acids 1-276 mapping at the N-terminus of Dok-1 (GAP-associated p62) of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG1, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Dok-1 (A-3) is available conjugated to agarose (sc-6929 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-6929 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phosphorylthrin (sc-6929 PE), fluorescein (sc-6929 FITC), Alexa Fluor® 488 (sc-6929 AF488), Alexa Fluor® 546 (sc-6929 AF546), Alexa Fluor® 594 (sc-6929 AF594) or Alexa Fluor® 647 (sc-6929 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-6929 AF680) or Alexa Fluor® 790 (sc-6929 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Dok-1 (A-3) is recommended for detection of Dok-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Dok-1 siRNA (h): sc-35210, Dok-1 siRNA (m): sc-35209, Dok-1 siRNA (r): sc-270314, Dok-1 shRNA Plasmid (h): sc-35210-SH, Dok-1 shRNA Plasmid (m): sc-35209-SH, Dok-1 shRNA Plasmid (r): sc-270314-SH, Dok-1 shRNA (h) Lentiviral Particles: sc-35210-V, Dok-1 shRNA (m) Lentiviral Particles: sc-35209-V and Dok-1 shRNA (r) Lentiviral Particles: sc-270314-V.

Molecular Weight of Dok-1: 62 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, RAW 264.7 whole cell lysate: sc-2211 or K-562 whole cell lysate: sc-2203.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**APPLICATIONS**

For research use only, not for use in diagnostic procedures.