Dok-6 (H-59): sc-292699



The Power to Question

BACKGROUND

The downstream of kinase family (Dok-1-7) are members of a class of "docking" proteins that include the tyrosine kinase substrates IRS-1 and Cas, which contain multiple tyrosine residues and putative SH2 binding sites. Dok-4, Dok-5 and Dok-6 are more similar to each other than to the other Dok family members, and may constitute a subfamily of the DOK genes. Dok-5 is a tyrosine kinase substrate that enhances c-Ret-dependent activation of mitogenactivated protein kinase (MAPK). Dok-5 transcript is abundant in muscle and increases during T cell activation. Dok-5 protein undergoes tyrosine phosphorylation in response to Insulin and Insulin-like growth factor-1. Dok-6 is highly expressed in the developing central nervous system. It associates with Ret to transduce Ret-mediated processes such as axonal projection.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DOK6 (human) mapping to 18q22.2; Dok6 (mouse) mapping to 18 E4.

SOURCE

Dok-6 (H-59) is a rabbit polyclonal antibody raised against amino acids 273-331 mapping at the C-terminus of Dok-6 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Dok-6 (H-59) is recommended for detection of Dok-6 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Dok-6 (H-59) is also recommended for detection of Dok-6 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Dok-6 siRNA (h): sc-60547, Dok-6 siRNA (m): sc-143140, Dok-6 shRNA Plasmid (h): sc-60547-SH, Dok-6 shRNA Plasmid (m): sc-143140-SH, Dok-6 shRNA (h) Lentiviral Particles: sc-60547-V and Dok-6 shRNA (m) Lentiviral Particles: sc-143140-V.

Molecular Weight of Dok-6: 38 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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