**BACKGROUND**

Individuals harboring germline mutations in the tumor suppressor gene von Hippel-Lindau (VHL) exhibit an increased susceptibility to a variety of tumors including renal carcinoma, hemangioblastoma of the central nervous system and pheochromocytoma. The Elongin (SIII) complex has been identified as the functional target of the VHL protein. Elongin (SIII) is a heterotrimer composed of a transcriptional active subunit designated Elongin A and two regulatory subunits designated Elongin B and Elongin C. VHL functions by binding to the Elongin B and C subunits, inhibiting the transcriptional efficacy of the Elongin (SIII) complex. Different isoforms of VHL have been observed, encoded by alternatively spliced transcript variants. The molecular weight of each isoform varies between species.

**CHROMOSOMAL LOCATION**

Genetic locus: VHL (human) mapping to 3p25.3; Vhl (mouse) mapping to 6 E3.

**SOURCE**

VHL (VHL40) is a mouse monoclonal antibody raised against amino acids 54-213 of VHL of human 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.

VHL (VHL40) is available conjugated to agarose (sc-135657 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-135657 HRP), 200 µg/ml, for WB, HRP (Cruz Marker), and Immunohistochemistry: use m-IgG1 kappa light chain in 100 µl of carrier protein for 500 µg/ml. VHL (VHL40) is recommended for detection of VHL 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 VHL siRNA (h): sc-36816, VHL shRNA Plasmid (h): sc-36817-VH, shRNA Plasmid (m): sc-36817-SH, VHL shRNA Plasmid (h) Lentiviral Particles: sc-36816-Vh and VHL shRNA (m) Lentiviral Particles: sc-36817-Vh.

Molecular Weight of VHL isoforms: 18/24 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or Daudi cell lysate: sc-2415.

**APPLICATIONS**

VHL (VHL40) is recommended for detection of VHL 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).

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG1 BP-HRP: sc-516102-CM and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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