**VHL (VHL40): sc-135657**

**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 IgG κ, 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, IHC (P) and ELISA; to either phycocyanin (sc-135657 PE), fluorescein (sc-135657 FITC), Alexa Fluor® 488 (sc-135657 AF488), Alexa Fluor® 546 (sc-135657 AF546), Alexa Fluor® 594 (sc-135657 AF594) or Alexa Fluor® 647 (sc-135657 AF647), 200 μg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 680 (sc-135657 AF680) or Alexa Fluor® 790 (sc-135657 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**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).

Suitable for use as control antibody for VHL siRNA (h): sc-36816, VHL siRNA (m): sc-36817, VHL shRNA Plasmid (h): sc-36816-SH, VHL shRNA Plasmid (m): sc-36817-SH, VHL shRNA (h) Lentiviral Particles: sc-36816-V and VHL shRNA (m) Lentiviral Particles: sc-36817-V.

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.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

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

**DATA**
VHL (VHL40): sc-135657. Western blot analysis of VHL expression in HeLa (A), Jurkat (B), Daudi (C), HEK293 (D) and Caco-2 (E) whole cell lysates and human placenta tissue extract (F).

VHL (VHL40): sc-135657. Immunoperoxidase staining of formalin fixed, paraffin embedded human kidney tissue showing cytoplasmic staining of cells in glomeruli (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic staining of glandular cells (B).

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**
See our web site at www.scbt.com for detailed protocols and support products.

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