

VIK-1 (G-20): sc-102154



The Power to Question

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. Vav-interacting Kruppel-like protein (VIK-1), also known as zinc finger protein 655 (ZNF655), is a 491 amino acid member of the Krüppel C₂H₂-type zinc-finger protein family. Localized primarily to the nucleus, VIK-1 shuttles between the nucleus and the cytoplasm and interacts with c-SH3, one of the three Src domains of Vav that determines its subcellular localization. VIK-1 also plays a role in cell-cycle progression. VIK-1 interacts with cyclin-dependent kinase 4 (Cdk4) and is involved in inhibiting the G₁/S transition of the cell-cycle.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF655 (human) mapping to 7q22.1.

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.

SOURCE

VIK-1 (G-20) is a purified rabbit polyclonal antibody raised against VIK-1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

VIK-1 (G-20) is recommended for detection of VIK-1 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for VIK-1 siRNA (h): sc-106820, VIK-1 shRNA Plasmid (h): sc-106820-SH and VIK-1 shRNA (h) Lentiviral Particles: sc-106820-V.

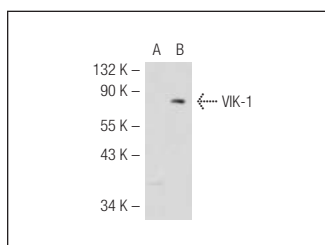
Molecular Weight of VIK-1: 57 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, VIK-1 (h): 293T Lysate: sc-110679 or VIK-1 (h2): 293T Lysate: sc-115377.

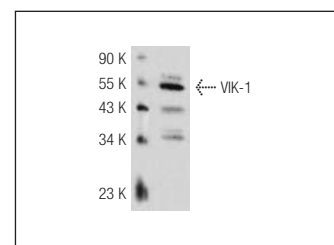
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-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).

DATA



VIK-1 (G-20): sc-102154. Western blot analysis of VIK-1 expression in non-transfected: sc-117752 (A) and human VIK-1 transfected: sc-115377 (B) 293T whole cell lysates.



VIK-1 (G-20): sc-102154. Western blot analysis of VIK-1 expression in HeLa whole cell lysate.

PROTOCOLS

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