

VIK-1 (E-15)-R: sc-30426-R

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 Krüppel-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.

SOURCE

VIK-1 (E-15)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of VIK-1 of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-30426 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VIK-1 (E-15) is recommended for detection of VIK-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

VIK-1 (E-15) is also recommended for detection of VIK-1 in additional species, including porcine.

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: Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-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.

PROTOCOLS

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