

# VILIP-1 (183B2E): sc-517633

## BACKGROUND

The VSNL1 gene to the short arm of chromosome 2 encodes VILIP-1 (visinin-like protein 1). VILIP-1 contains four EF-hands and a double-stranded RNA-binding domain and is a member of the neuronal calcium sensor family, which is included in the calcium-binding protein superfamily. VILIP-1 is expressed in the membrane, cytoplasm and cytoskeleton of the sympathetic and parasympathetic neurons throughout the brain, except for the caudate-putamen region. The rate of VILIP-1 expression decreases significantly with age. VILIP-1 associates with actin in the cytoskeleton, which may translocate VILIP-1 to the membrane. VILIP-1 binds the 3'-untranslated region of trkB double-stranded mRNA in a calcium dependent manner. VILIP-1 associates with G protein-receptor kinase 1 and inhibits its binding to the membrane. VILIP-1 is involved in membrane calcium signaling and may play a role in the sensitivity of G-protein cascades to cytosolic. Decreased amounts of VILIP-1 were found in Alzheimer disease brains, suggesting it may play a role in the disease.

## REFERENCES

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## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## CHROMOSOMAL LOCATION

Genetic locus: VSNL1 (human) mapping to 2p24.2.

## SOURCE

VILIP-1 (183B2E) is a mouse monoclonal antibody raised against recombinant VILIP-1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

VILIP-1 (183B2E) is recommended for detection of VILIP-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for VILIP-1 siRNA (h): sc-106299, VILIP-1 shRNA Plasmid (h): sc-106299-SH and VILIP-1 shRNA (h) Lentiviral Particles: sc-106299-V.

Molecular Weight of VILIP-1: 22 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™  
Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## 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.