

# VILIP-1 (K-25): sc-130827

## 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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## CHROMOSOMAL LOCATION

Genetic locus: VSNL1 (human) mapping to 2p24.2; Vsnl1 (mouse) mapping to 12 A1.1.

## SOURCE

VILIP-1 (K-25) is a purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of VILIP-1 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

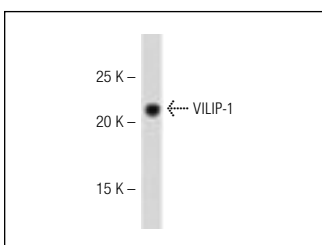
VILIP-1 (K-25) is recommended for detection of VILIP-1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for VILIP-1 siRNA (h): sc-106299, VILIP-1 siRNA (m): sc-155106, VILIP-1 shRNA Plasmid (h): sc-106299-SH, VILIP-1 shRNA Plasmid (m): sc-155106-SH, VILIP-1 shRNA (h) Lentiviral Particles: sc-106299-V and VILIP-1 shRNA (m) Lentiviral Particles: sc-155106-V.

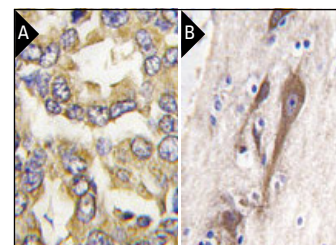
Molecular Weight of VILIP-1: 22 kDa.

Positive Controls: mouse brain extract: sc-2253, human breast carcinoma tissue or human brain tissue.

## DATA



VILIP-1 (K-25): sc-130827. Western blot analysis of VILIP-1 expression in mouse brain tissue extract.



VILIP-1 (K-25): sc-130827. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast carcinoma tissue (A) and brain tissue (B) showing cytoplasmic localization.

## 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.

**MONOS**  
Satisfaction  
Guaranteed

Try **VILIP-1 (2F1-E3): sc-293209**, our highly recommended monoclonal alternative to VILIP-1 (K-25).