10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VILIP3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1563a

Product Information

Application	WB, IHC-P, E
Primary Accession	P37235
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB0501
Calculated MW	22313
Antigen Region	2-32

Additional Information

Gene ID	3241
Other Names	Hippocalcin-like protein 1, Calcium-binding protein BDR-1, HLP2, Visinin-like protein 3, VILIP-3, HPCAL1, BDR1
Target/Specificity	This VILIP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human VILIP3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	VILIP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HPCAL1
Synonyms	BDR1
Function	May be involved in the calcium-dependent regulation of rhodopsin

phosphorylation.

Cellular Location Membrane; Lipid-anchor

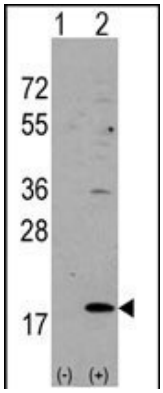
Background

VILIP3 is a member of neuron-specific calcium-binding proteins family found in the retina and brain. It is highly similar to human hippocalcin protein and nearly identical to the rat and mouse hippocalcin like-1 proteins. It may be involved in the calcium-dependent regulation of rhodopsin phosphorylation and may be of relevance for neuronal signalling in the central nervous system. There are two alternatively spliced transcript variants of this gene, with multiple polyadenylation sites. Transcript variant 1 utilizes a different exon and also lacks one exon in the 5' UTR, as compared to variant 2; thus, the encoded protein is the same.

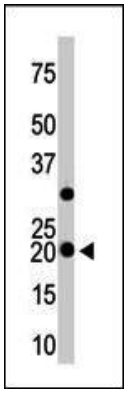
References

Braunewell, K., et al., Dement Geriatr Cogn Disord 12(2):110-116 (2001). Bernstein, H.G., et al., J Neurocytol 28(8):655-662 (1999). Kobayashi, M., et al., Biochim. Biophys. Acta 1222(3):515-518 (1994). Hidaka, H., et al., Neurosci. Res. 16(2):73-77 (1993). Ivings, L., et al., Biochem. J. 363 (Pt 3), 599-608 (2002).

Images

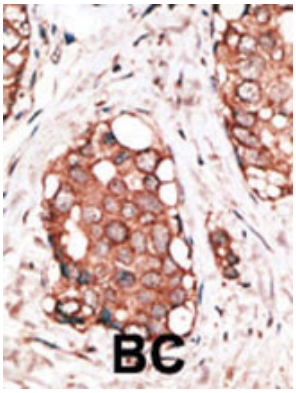


Western blot analysis of VILIP3 (arrow) using rabbit polyclonal VILIP3 Antibody (N-term) (Cat.#AP1563a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the VILIP3 gene (Lane 2) (Origene Technologies).



The anti-VILIP3 Pab (Cat. #AP1563a) is used in Western blot to detect VILIP3 in mouse cerebellum tissue lysate.

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



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