

**NIPSNAP Antibody**  
**Catalog # ASC10666****Specification**

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**NIPSNAP Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q9BPW8</a>
Other Accession	<a href="#">NP_003625</a> , <a href="#">193211616</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	NIPSNAP antibody can be used for the detection of NIPSNAP by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

**NIPSNAP Antibody - Additional Information**

Gene ID	8508
Target/Specificity	
NIPSNAP1;	

**Reconstitution & Storage**

NIPSNAP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

NIPSNAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**NIPSNAP Antibody - Protein Information**

**Name** NIPSNAP1

**Tissue Location**

Ubiquitous. Highest expression in liver.

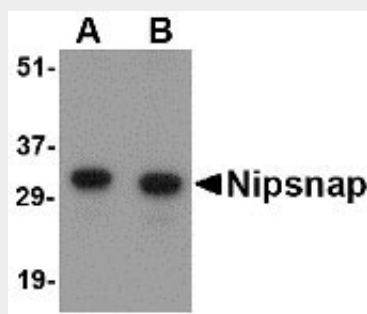
**NIPSNAP Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

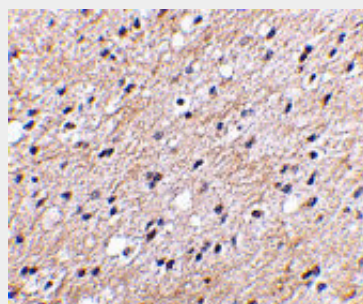
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

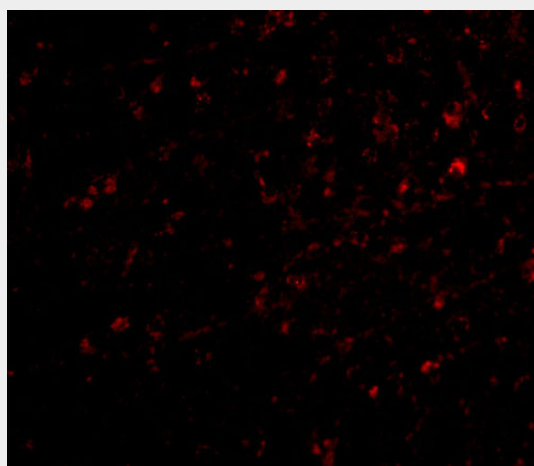
## NIPSNAP Antibody - Images



Western blot analysis of NIPSNAP in human brain tissue lysate with NIPSNAP antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemical staining of human brain tissue using Nipsnap antibody at 2.5 µg/mL.



Immunofluorescence of nipsnap in human brain tissue with nipsnap antibody at 20 µg/mL.

## NIPSNAP Antibody - Background

**NIPSNAP Antibody:** NIPSNAP is a member of an evolutionarily well conserved gene family and has a strong sequence similarity to the central portion of a protein encoded by *C. elegans* chromosome III between a 4-nitrophenylphosphatase (NIP) domain and non-neuronal SNAP25-like protein. Recent

studies have indicated that NIPSNAP is involved in the regulation of the Ca<sup>2+</sup>-selective transient receptor potential vanilloid channel 6 (TRPV6). NIPSNAP1 associates with TRPV6 at the plasma membrane and inhibits TRPV6 currents. Other studies show that NIPSNAP's expression is reduced in the phenylketonuria (PKU) mouse brain, suggesting that NIPSNAP may play a role in memory.

#### **NIPSNAP Antibody - References**

Seroussi E, Pan H-Q, Kedra D, et al. Characterization of the human NIPSNAP1 gene from 22q12: a member of a novel gene family. *Gene*1998; 212:13-20.

Schoeber JP, Topala CN, Lee KP, et al. Identification of Nipsnap1 as a novel auxiliary protein inhibiting TRPV6 activity. *Pflugers Arch.*2008; epub.

Surendran S, Tying SK and Matalon R. Expression of calpastatin, minopontin, NIPSNAP1, rabaptin-5 and neuronatin in the phenylketonuria (PKU) mouse brain: possible role on cognitive defect seen in PKU. *Neurochem. Int.*2005; 46:595-9.