

**BAP3 Antibody**  
**Catalog # ASC10656****Specification****BAP3 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O94812</a>
Other Accession	<a href="#">BAA34710</a> , <a href="#">3929917</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	BAP3 antibody can be used for the detection of BAP3 by Western blot at 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

**BAP3 Antibody - Additional Information**

Gene ID	8938
Target/Specificity	
BAIAP3;	

**Reconstitution & Storage**

BAP3 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**

BAP3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**BAP3 Antibody - Protein Information**

**Name** BAIAP3 {ECO:0000303|PubMed:28626000, ECO:0000312|HGNC:HGNC:948}

**Function**

Functions in endosome to Golgi retrograde transport. In response to calcium influx, may interact with SNARE fusion receptors and membrane phospholipids to mediate endosome fusion with the trans- Golgi network. By promoting the recycling of secretory vesicle transmembrane proteins, it indirectly controls dense-core secretory vesicle biogenesis, maturation and their ability to mediate the constitutive and regulated secretion of neurotransmitters and hormones. May regulate behavior and food intake by controlling calcium-stimulated exocytosis of neurotransmitters including NPY and serotonin and hormones like insulin (PubMed:<a href="http://www.uniprot.org/citations/28626000" target="\_blank">28626000</a>). Proposed to play a role in hypothalamic neuronal firing by modulating gamma-aminobutyric acid (GABA)ergic inhibitory neurotransmission (By similarity).

**Cellular Location**

Cytoplasm, cytosol. Recycling endosome membrane; Peripheral membrane protein. Late endosome membrane; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Note=Rapidly recruited to the plasma membrane and to Golgi structures in response to increased intracellular calcium concentration.

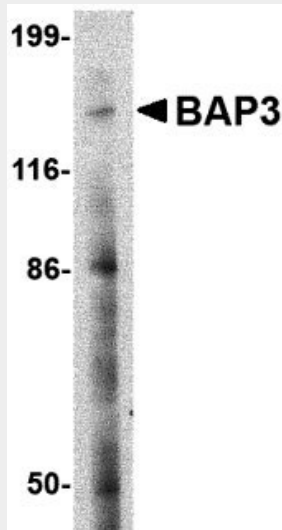
**Tissue Location**

Predominantly expressed in brain (PubMed:9790924). Also expressed in nonneural tissues such as breast and testes epithelium (PubMed:12498718).

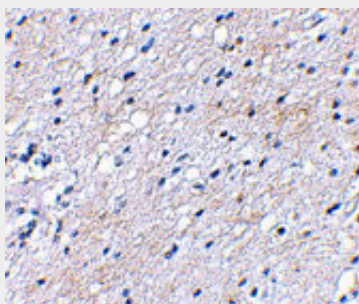
**BAP3 Antibody - Protocols**

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

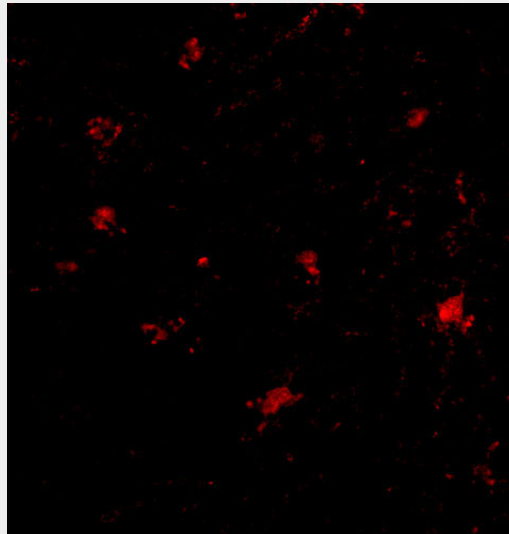
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**BAP3 Antibody - Images**

Western blot analysis of BAP3 in SK-N-SH cell lysate with BAP3 antibody at 2 µg/mL.



Immunohistochemical staining of human brain tissue using BAP3 antibody at 2.5 µg/mL.



Immunofluorescence of BAP3 in human brain tissue with BAP3 antibody at 20 µg/mL.

### **BAP3 Antibody - Background**

**BAP3 Antibody:** BRAL1 is a member a superfamily consisting of several highly homologous hyaluronan and proteoglycan binding link proteins. BRAL1 is predominantly expressed in brain tissue and spinal cord. Like other members in the link-module superfamily, BRAL1 contains an immunoglobulin-like fold and two proteoglycan tandem repeats (PTRs). Its mRNA expression pattern is similar to other lectican proteoglycans, suggesting that BRAL1 may act to stabilize the binding between the extracellular matrix molecule hyaluronan and brevican. Immunostaining of mouse brain showed BRAL1 expression at P20 in the white matter of the developing cerebellum and in myelinated fiber tracts in the adult brain, suggesting that expression starts when axonal myelination occurs.

### **BAP3 Antibody - References**

Shiratsuchi T, Oda K, Nishimori H, et al. Cloning and characterization of BAP (BAI-associated protein 3), a C2 domain-containing protein that interacts with BAI1. *Biochem. Biophys. Res. Comm.*1998; 251:158-65.

Palmer RE, Lee SB, Wong JC, et al. Induction of BAIAP3 by the EWS-WT1 chimeric fusion implicates regulated exocytosis in tumorigenesis. *Cancer Cell*2002; 2:497-505.