

Bassoon Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54190**Specification****Bassoon Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UPA5
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	416469

Bassoon Polyclonal Antibody - Additional Information**Gene ID** 8927**Other Names**

Protein bassoon, Zinc finger protein 231, BSN (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=1117)
HGNC:1117

Dilution

IHC-P ~ N/A
IHC-F ~ N/A
IF ~ 1:50 ~ 200

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Bassoon Polyclonal Antibody - Protein Information**Name** BSN ([HGNC:1117](#))**Function**

Scaffold protein of the presynaptic cytomatrix at the active zone (CAZ) which is the place in the synapse where neurotransmitter is released (PubMed: [12812759](http://www.uniprot.org/citations/12812759)). After synthesis, participates in the formation of Golgi-derived membranous organelles termed Piccolo-Bassoon transport vesicles (PTVs) that are transported along axons to sites of nascent synaptic contacts (PubMed: [19380881](http://www.uniprot.org/citations/19380881)). At the presynaptic active zone, regulates the spatial organization of synaptic vesicle cluster, the protein complexes that execute membrane fusion and compensatory endocytosis (By similarity). Also functions in processes other than assembly such as the regulation of specific presynaptic protein ubiquitination by interacting with SIAH1 or the

regulation of presynaptic autophagy by associating with ATG5 (By similarity). Also mediates synapse to nucleus communication leading to reconfiguration of gene expression by associating with the transcriptional corepressor CTBP1 and by subsequently reducing the size of its pool available for nuclear import (By similarity). Inhibits the activity of the proportion of DAO enzyme that localizes to the presynaptic active zone, which may modulate synaptic transmission (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:O88778}. Presynaptic active zone {ECO:0000250|UniProtKB:O88778}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:O88778}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:O88778}; Peripheral membrane protein {ECO:0000250|UniProtKB:O88778}. Note=In retina, is localized in the outer plexiform layer at ribbon synapses formed by rods and cones but was absent from basal synaptic contacts formed by cones. In the retinal inner plexiform layer localized to conventional inhibitory GABAergic synapses, made by amacrine cells, but absent from the bipolar cell ribbon synapses. {ECO:0000250|UniProtKB:O88778}

Tissue Location

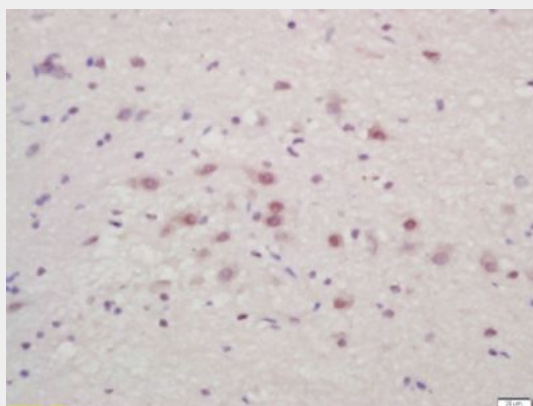
Exclusively expressed in brain.

Bassoon Polyclonal 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](#)

Bassoon Polyclonal Antibody - Images



Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Bassoon Polyclonal Antibody, Unconjugated(bs-0275R) 1:200, overnight at 4°C,

followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining