

Rabbit Bassoon Polyclonal Antibody | anti-BSN antibody

Bassoon Antibody

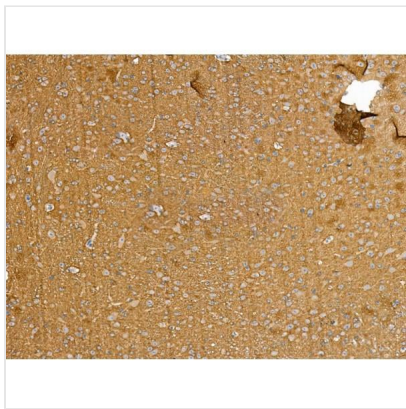
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328904	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Xenopus(86%)	ELISA

PRODUCT SYNONYMS

Bassoon; Polyclonal Antibody; Bassoon Antibody; Bassoon protein; bsn; BSN_HUMAN; KIAA0434; Neuronal double zinc finger protein; Presynaptic cytomatrix protein; Protein bassoon; Zinc finger protein 231; ZNF 231; ZNF231; anti-BSN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(88%), Xenopus(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Bassoon Antibody detects endogenous levels of total Bassoon.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	3926
Applicable Applications for anti-BSN antibody	ELISA
Immunogen	A synthesized peptide derived from human Bassoon, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



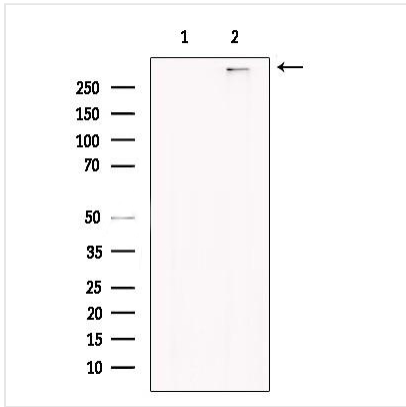
IHC (Immunohistochemisry)

AAA328904 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)

AAA328904 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Rat brain, using Bassoon Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BSN antibody	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). 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). 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). Functions also 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). Mediates also 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). Post Translational Modifications: Myristoylated. The N-terminal myristoylation is not sufficient for presynaptic localization (By similarity). Subcellular Location: Cytoplasm. Cell junction>Synapse>Presynaptic active zone. Cytoplasm>Cytoskeleton. Cytoplasmic vesicle>Secretory vesicle>Synaptic vesicle membrane>Peripheral membrane protein. 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. Tissue Specificity: Exclusively expressed in brain. Subunit Structure: Interacts with PCLO, ERC2/CAST1, RIMS1 and UNC13A (By similarity). Interacts with TPRG1L (By similarity). Interacts with DYNLL1 and DYNLL2; these interactions potentially link PTVs to dynein and myosin V motor complexes (PubMed:19380881). Interacts with ATG5; this interaction is important for the regulation of presynaptic autophagy (By similarity). Interacts (via C-terminus) with TRIO (via N-terminus) (By similarity). Interacts with CTBP1 (By similarity). Interacts with SIAH1; this interaction negatively regulates SIAH1 E3 ligase activity (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	229463040
NCBI GeneID	8927
UniProt Accession #	Q9UPA5
Molecular Weight	Observed Molecular Weight: (Observed)416kD. Predicted Molecular Weight: (Calculated)416kDa.
NCBI Official Full Name	Protein bassoon
NCBI Official Synonym Full Names	bassoon presynaptic cytomatrix protein
NCBI Official Symbol	BSN
NCBI Official Synonym Symbols	ZNF231
NCBI Protein Information	protein bassoon
UniProt Protein Name	Protein bassoon
UniProt Gene Name	BSN
UniProt Synonym Gene Names	KIAA0434; ZNF231
UniProt Entry Name	BSN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.