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Rabbit Anti-Bassoon antibody

SL0275R

Product Name:	Bassoon
Chinese Name:	Zinc finger protein231抗体
Alias:	Bassoon; BSN; KIAA0434; Neuronal double zinc finger protein; Presynaptic cytomatrix protein; Protein bassoon; Zinc finger protein 231; ZNF 231; ZNF231; Neuronal double zinc finger protein; Zinc-finger protein 231; BSN_HUMAN; ZNF 231.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	432kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BSN:2901-3000/3926
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Neurotransmitters are released from a specific site in the axon terminal called the active zone, which is composed of synaptic vesicles and a meshwork of cytoskeleton underlying the plasma membrane. The protein encoded by this gene is thought to be a scaffolding protein involved in organizing the presynaptic cytoskeleton. The gene is expressed primarily in neurons in the brain. A similar gene product in rodents is

concentrated in the active zone of axon terminals and tightly associated with cytoskeletal structures, and is essential for regulating neurotransmitter release from a subset of synapses. [provided by RefSeq, Jul 2008].

Function:
Is thought to be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. Seems to act through binding to ERC2/CAST1. Essential in regulated neurotransmitter release from a subset of brain glutamatergic synapses. Involved in the formation of the retinal photoreceptor ribbon synapses.

Subunit:
Interacts with ERC2/CAST1, RIMS1 and UNC13A. Part of a complex consisting of ERC2, RIMS1 and BSN.

Subcellular Location:
Cytoplasm. Cell junction, synapse, synaptosome. Cytoplasm, cytoskeleton. Note=Localized to the active zone of presynaptic density.

Tissue Specificity:
Exclusively expressed in brain.

Post-translational modifications:
Myristoylated. The N-terminal myristoylation is not sufficient for presynaptic localization.

SWISS:
Q9UPA5

Gene ID:
8927

Database links:

Entrez Gene: 8927Human

Entrez Gene: 12217Mouse

Entrez Gene: 29138Rat

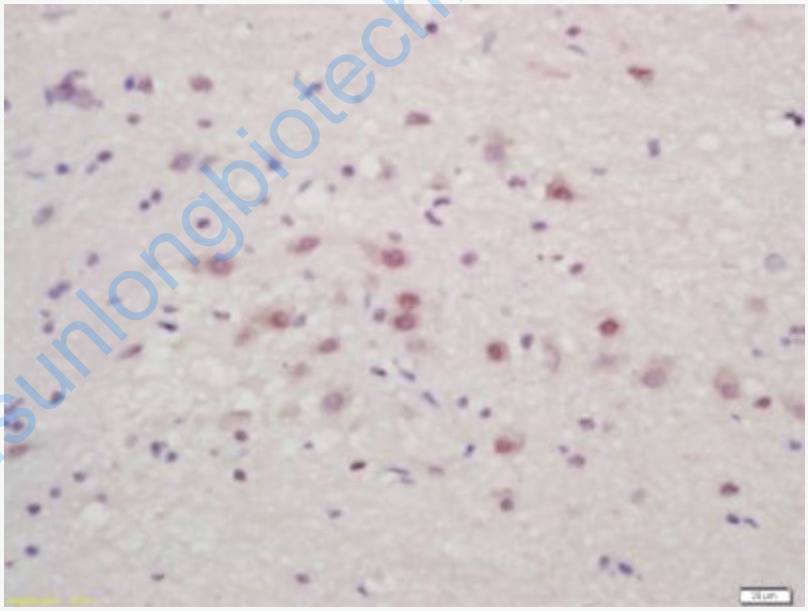
Omim: 604020Human

SwissProt: O43161Human

SwissProt: Q9UPA5Human

SwissProt: O88737Mouse

SwissProt: O88778Rat

	Unigene: 194684Human Unigene: 20425Mouse Unigene: 29999Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Zinc finger protein是80年代中期发现的一类DNABinding protein，在真核生物中,Zinc finger protein可能是最大的一类DNABinding protein，并且由Zinc finger protein调控基因表达是发育和其他过程的一个非常普遍的现象。在最近的几年中，发现某些Zinc finger protein对肌肉的发育具有重要的调节作用。
Picture:	 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℃ for 20 min; Incubation: Anti-Bassoon Polyclonal Antibody, Unconjugated(SL0275R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining