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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.
Research Area	Tumour immunology Zinc finger protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, (predicted: Human, Rat,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	432kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human BSN: 2901-3000/3926
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

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.

Product Detail

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: 8927 Human

Entrez Gene: 12217 Mouse

Entrez Gene: 29138 Rat

Omim: 604020 Human

SwissProt: Q9UPA5 Human

SwissProt: O88737 Mouse

SwissProt: O88778 Rat

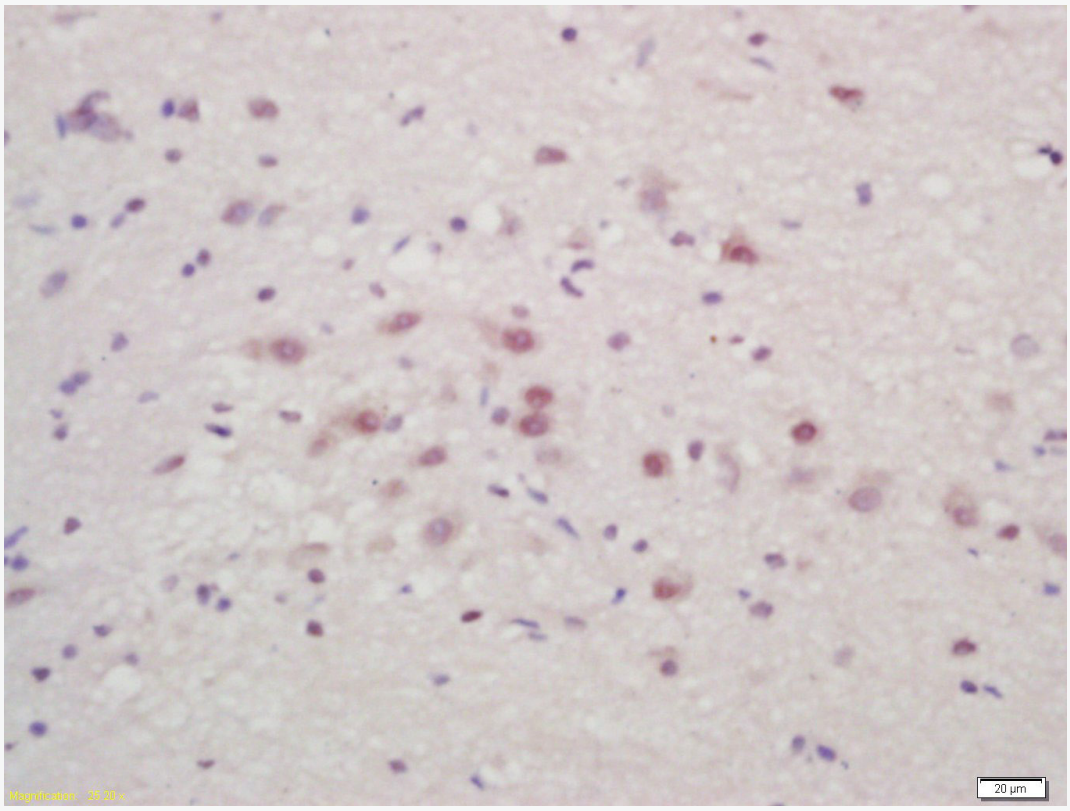
Unigene: 194684 Human

Unigene: 20425 Mouse

Unigene: 29999 Rat

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。

Product Picture



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

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paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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