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#6897

Bassoon (D63B6) Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

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|---------------------------------|---------------------------|-----------------------------------|-------------------------|--------------------------------------|-------------------------------|--------------------------------|
| Applications: W, IF-F | Reactivity: M R | Sensitivity: Endogenous | MW (kDa): 420 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9UPA5 | Entrez-Gene Id: 8927 |
|---------------------------------|---------------------------|-----------------------------------|-------------------------|--------------------------------------|-------------------------------|--------------------------------|

Product Usage Information

Application

Western Blotting
Immunofluorescence (Frozen)

Dilution

1:1000
1:200 - 1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #69024.

Specificity/Sensitivity

Bassoon (D63B6) Rabbit mAb recognizes endogenous levels of total Bassoon protein. Some background staining was observed in muscle tissue and the choroid plexus by confocal immunofluorescent analysis.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln1217 of human bassoon protein.

Background

Bassoon (BSN), named such to underline its presumptive role in orchestrating events of the synaptic vesicle cycle (1), is a very large coiled-coil protein and is one of the core components of the cytomatrix at the active zones of both excitatory and inhibitory synapses (2). BSN is a scaffold protein that is a component of the synaptic ribbon, an electron-dense structure anchored at the active zone that tethers synaptic vesicles. Genetic disruption of BSN displaces the anchoring of ribbons to the active zones of photoreceptors and cochlear inner hair cells (3), and this displacement of the ribbons substantially impairs synaptic transmission, suggesting that, when present, BSN is important for the vesicle cycle (4).

Background References

1. Winter, C. et al. (1999) *Genomics* 57, 389-97.
2. Hallermann, S. et al. (2010) *Neuron* 68, 710-23.
3. Frank, T. et al. (2010) *Neuron* 68, 724-38.
4. Joselevitch, C. and Zenisek, D. (2010) *Neuron* 68, 604-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-F:** Immunofluorescence (Frozen)

Cross-Reactivity Key

M: Mouse **R:** Rat

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