

## Anti-Bassoon Bsn Antibody (Monoclonal, SAP7F407)

Catalog Number: M04354

### About Bsn

Heat shock protein 47, also known as SERPINH1 or HSP47, is a serpin which serves as a human chaperone protein for collagen. This protein is a member of the serpin superfamily of serine proteinase inhibitors. Its expression is induced by heat shock. The protein localizes to the endoplasmic reticulum lumen and binds collagen; thus it is thought to be a molecular chaperone involved in the maturation of collagen molecules. Autoantibodies to this protein have been found in patients with rheumatoid arthritis. It has been found that HSP47 monitors the integrity of the triple helix of type I procollagen at the ER/cis-Golgi boundary and, when absent, the rate of transit from the ER to the Golgi is increased and the helical structure is compromised.

### Overview

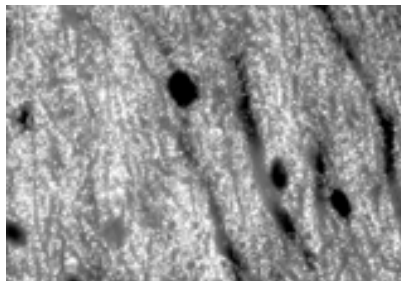
Product Name	Anti-Bassoon Bsn Antibody (Monoclonal, SAP7F407)
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Bassoon Bsn Antibody (Monoclonal, SAP7F407) catalog # M04354. Tested in IP, IF, IHC, WB applications. This antibody reacts with Mouse, Rat.
Application	IP, IF, IHC, WB
Clonality	Monoclonal SAP7F407
Formulation	Each vial contains 50% glycerol and 0.09% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	O88778

### Technical Details

Immunogen	Recombinant rat Bassoon.
Predicted Reactive Species	Bovine, Goat, Guinea Pig, Hamster, Monkey, Sheep
Cross Reactivity	Detects ~20kDa. Does not cross-react with alphaB-crystallin, betaL-crystallin, ̢H- crystallin, gamma-crystallin, HSP25, HSP27 or HSP47 proteins.
Isotype	Mouse IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

Purification	Protein G affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB, 1:500 - 1:1,000, Mouse, Rat</p> <p>IP, 2.5ug, Mouse, Rat</p> <p>ICC, 1:400, Mouse, Rat</p>

## Anti-Bassoon Bsn Antibody (Monoclonal, SAP7F407) (M04354) Images



Bassoon was detected in paraffin-embedded sections of rat brain cerebellar molecular layer using mouse anti-Bassoon Antigen Affinity purified monoclonal antibody (Catalog # M04354). The immunohistochemical section was developed using SABC method (Catalog # SA1021).



Western blot analysis of Bassoon expression in MW marker (lane 1) and rat brain extract (lane 2). Bassoon at 400KD was detected using mouse anti-Bassoon Antigen Affinity purified monoclonal antibody (Catalog # M04354) at 1:500-1:1000. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).

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