

bs-20241R**[Primary Antibody]****BioSS**
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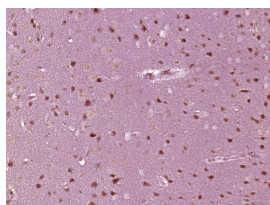
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Musashi 1 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 4440	SWISS: Q43347	IF (1:100-500)
Target: Musashi 1		Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Horse)
Immunogen: KLH conjugated synthetic peptide derived from human Musashi 1: 151-250/362.		
Purification: affinity purified by Protein A		Predicted MW.: 39 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm ,Nucleus
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Musashi1 (Msi1) is an RNA-binding protein expressed in neural progenitor cells and neural stem cells. Msi1 is the mammalian homolog of Drosophila Musashi. The gene encoding human Msi1 encodes a 362 amino acid protein. In murine embryonic neural progenitor cells, Msi1 localizes to the cytoplasm and is downregulated during differentiation. Msi1 binds to NUMB, which encodes a membrane-associated antagonist of Notch signaling. Msi1 appears to function in the proliferation and maintenance of stem cell populations of the central nervous system. In addition to its usefulness as a marker for neural progenitor cells in normal human brains, Msi1 is also a marker for human gliomas. In rats, Msi1 is expressed in Sertoli cells of the testis and granulosa cells of the ovary.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Musashi 1) Polyclonal Antibody, Unconjugated (bs-20241R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=4]** Xiaoting Meng. et al. Electrical stimulation induced structural 3D human engineered neural tissue with well-developed neuronal network and functional connectivity. J NEURAL ENG. 2023 Jul; ICC ;Human. 37433290
- **[IF=2.1]** Huiping Wei. et al. Induction of mesenchymal stem cell-like transformation in rat primary glial cells using hypoxia, mild hypothermia and growth factors. Mol Med Rep. 2021 Feb;23(2):1-1 IHC ;Rat. 33300053

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.