

For Research Use Only

# MSI1 Recombinant monoclonal antibody

Catalog Number: 86723-1-RR



## Basic Information

Catalog Number:	86723-1-RR	GenBank Accession Number:	BC146463	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	4440	CloneNo.:	251695G8
Source:	Rabbit	UNIPROT ID:	O43347	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	musashi homolog 1 (Drosophila)		
Immunogen Catalog Number:	AG26042	Calculated MW:	362 aa, 39 kDa		
		Observed MW:	37-40 kDa		

## Applications

Tested Applications:	WB, ELISA	Positive Controls:	WB: HEK-293T cells, mouse brain tissue, SH-SY5Y cells, COLO 320 cells, Neuro-2a cells, PC-12 cells, rat brain tissue
Species Specificity:	human, mouse, rat		

## Background Information

Musashi1 (Msi1) is an RNA-binding protein expressed in neural progenitor cells and neural stem cells. 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.

## Storage

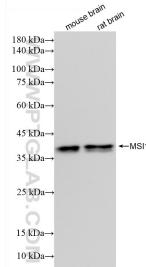
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

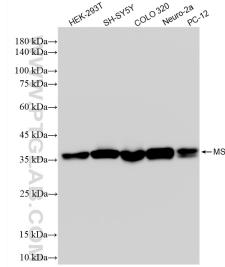
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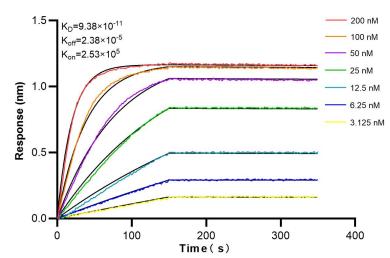
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86723-1-RR (MSI1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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Biolayer interferometry (BLI) kinetic assays of 86723-1-RR against Human MSI1 were performed. The affinity constant is 93.8 pM.