

For Research Use Only

MSI1 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86723-1-PBS



Basic Information

Catalog Number: 86723-1-PBS	GenBank Accession Number: BC146463	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4440	CloneNo.: 251695G8
Isotype: IgG	UNIPROT ID: O43347	
Immunogen Catalog Number: AG26042	Full Name: musashi homolog 1 (Drosophila)	
	Calculated MW: 362 aa, 39 kDa	
	Observed MW: 37-40 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

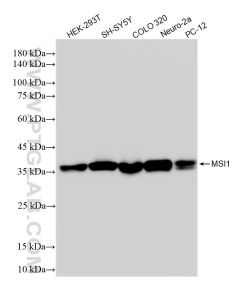
T: 4006900926

E: Proteintech-CN@ptglab.com

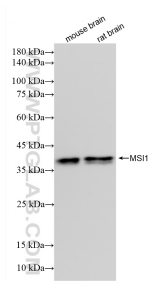
W: ptgcn.com

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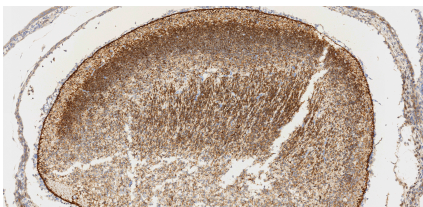
Selected Validation Data



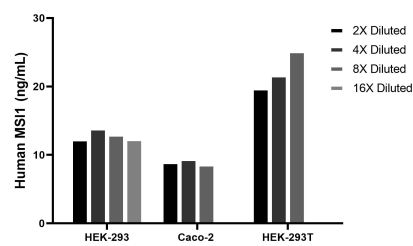
Various lysates were subjected to SDS PAGE followed by western blot with 86723-1-RR (MS11 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86723-1-PBS in a different storage buffer formulation.



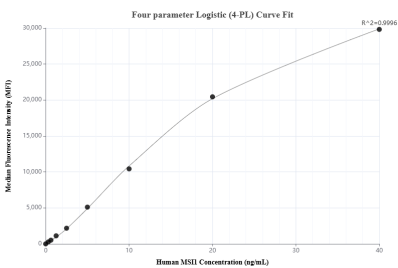
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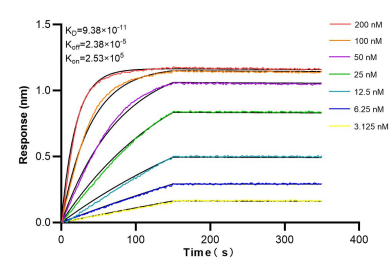
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 86723-1-RR (MS11 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86723-1-PBS in a different storage buffer formulation.



The mean MS11 concentration was determined to be 12.9 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load, 9.0 ng/mL in Caco-2 cell extract based on a 1.3 mg/mL extract load, 20.7 ng/mL in HEK-293T cell extract based on a 2.6 mg/mL extract load.



Cytometric bead array standard curve of MP02619-1, MS11 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86723-1-PBS. Detection antibody: 86723-2-PBS. Standard: Ag26042. Range: 0.312-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 86723-1-RR against Human MS11 were performed. The affinity constant is 93.8 pM.