

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
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	4440	CloneNo.:	251695G8
Source:	Rabbit	UNIPROT ID:	O43347	Full Name:	musashi homolog 1 (Drosophila)
Isotype:	IgG	Calculated MW:	362 aa, 39 kDa	Observed MW:	37-40 kDa
Immunogen Catalog Number:	AG26042				

Applications

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

Species Specificity:
human, mouse, rat

Product Information

86723-1-PBS targets MSI1 as part of a matched antibody pair:

MPO2619-1: 86723-1-PBS capture and 86723-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

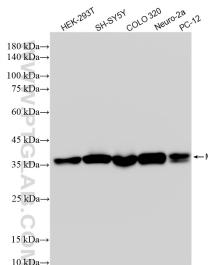
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

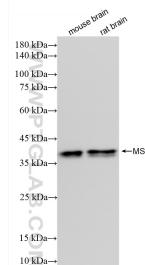
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



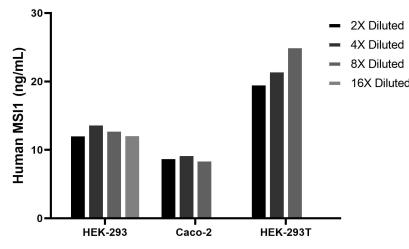
Various lysates were subjected to SDS PAGE followed by western blot with 86723-1-RR (MSI1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86723-1-PBS in a different storage buffer formulation.



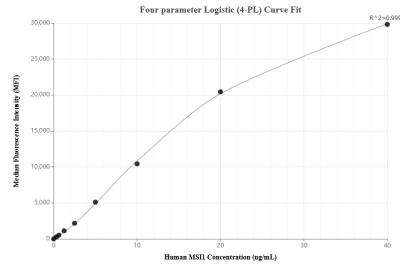
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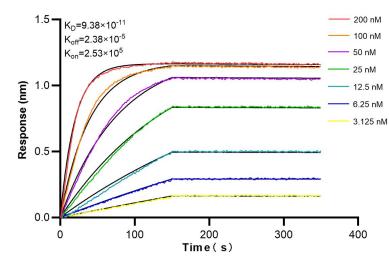
Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 86723-1-RR (MSI1 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86723-1-PBS in a different storage buffer formulation.



The mean MSI1 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 MPO2619-1, MSI1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86723-1-PBS. Detection antibody: 86723-2-PBS. Standard: Ag26042. Range: 0.312-40 ng/mL



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