



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
www.cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C

#2154

Musashi Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35	Source: Rabbit	UniProt ID: O43347	Entrez-Gene Id: 4440
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Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

Musashi Antibody detects endogenous levels of total Musashi 1 and 2 protein.

Species Reactivity:
Human, Mouse, Rat

Species predicted to react based on 100% sequence homology:
Zebrafish

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human Musashi. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Musashi-1 and Musashi-2 are RNA-binding proteins which play a role in asymmetric cell division of ectodermal precursor cells by regulating the translation of target mRNA. Both family members augment Notch signaling and repress the translation of m-Numb, a protein that positively modulates differentiation of neural stem cells into neurons. Thus, Musashi contributes to the maintenance of neural stem cells (1). While Musashi-1 is frequently used as a marker for proliferating neural precursor cells, it is also expressed in epithelial stem cells including intestinal and mammary gland stem cells (2-4).

1. Okano, H. et al. (2005) *Exp. Cell Res.* 306, 349-56.
2. Sakakibara, S. et al. (1996) *Dev. Biol.* 176, 230-42.
3. Potten, C.S. et al. (2003) *Differentiation* 71, 28-41.
4. Clarke, R.B. et al. (2005) *Dev. Biol.* 277, 443-56.

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

APPLICATIONS KEY WB: Western Blot IP: Immunoprecipitation IHC: Immunohistochemistry ChIP: Chromatin Immunoprecipitation IF: Immunofluorescence F: Flow Cytometry E-P: ELISA-Peptide

CROSS-REACTIVITY KEY H: human M: mouse R: rat Hm: hamster Mk: monkey MI: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse All: all species expected

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Musashi Antibody

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