

**#2154** Store at -20°C

# Musashi Antibody


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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> WB	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 35	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #O43347	<b>Entrez-Gene Id:</b> 4440
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Musashi Antibody detects endogenous levels of total Musashi 1 and 2 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Zebrafish	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala100 of human Musashi-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	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).	
<b>Background References</b>	1. Okano, H. et al. (2005) <i>Exp. Cell Res.</i> 306, 349-56. 2. Sakakibara, S. et al. (1996) <i>Dev. Biol.</i> 176, 230-42. 3. Potten, C.S. et al. (2003) <i>Differentiation</i> 71, 28-41. 4. Clarke, R.B. et al. (2005) <i>Dev. Biol.</i> 277, 443-56.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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