## Musashi-1 (D46A8) Rabbit mAb



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<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 35	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O43347	Entrez-Gene Id: 4440
Product Usage Information	•	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Musashi-1 (D46A8) Rabbit mAb detects endogenous levels of total Musashi-1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Met190 of human Musashi-1 protein.				
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).				
Background References		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.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		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.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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