

#85652 Store at -20C

Musashi (D46A8) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	35	Rabbit IgG	#O43347	4440

Product Usage Information	Application Western Blotting	Dilution 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 (D46A8) Rabbit mAb recognizes endogenous levels of total Musashi-1 and Musashi-2 proteins.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala100 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	<ol style="list-style-type: none"> Okano, H. et al. (2005) <i>Exp. Cell Res.</i> 306, 349-56. Sakakibara, S. et al. (1996) <i>Dev. Biol.</i> 176, 230-42. Potten, C.S. et al. (2003) <i>Differentiation</i> 71, 28-41. 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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