

Rabbit Anti-Musashi2 (Msi2) Polyclonal: RC0283, RC0283RTU7

Intended Use: For Research Use Only

Description: Musashi 2 (Msi2) protein, a regulator of mRNA translation, was consistently elevated in metastasis-competent cell lines. Msi2 is reported to be a potential oncoprotein in cases of leukemia and several solid tumors. The Msi2 RNA-binding protein has been demonstrated to have a role in acute myeloid leukemia and stem cell function. The Msi2 RNA-binding protein is a potent oncogene playing key roles in hematopoietic stem cell homeostasis and malignant hematopoiesis. Msi2 is expressed in the intestinal stem cell compartment, that its expression is elevated in colorectal adenocarcinomas, and that Msi2 loss-of-function abrogates colorectal cancer cell growth. Msi2 is highly expressed in human myeloid leukemia (AML) cell lines, and high expression of Msi2 mRNA is associated with decreased survival in AML, suggesting its use as a new prognostic marker. It has been demonstrated that Msi2 can induce bladder cancer cell migration and invasion by activating the JAK2/STAT3 pathway, and may be a valuable prognostic biomarker for bladder cancer patients. Msi2 antibody may indicate the presence of stem cells in tumors of colorectal, lung, and pancreatic cancers, and in glioblastoma, Leukemias, and xenografts, where it supports proliferation and prevents apoptosis.

Specifications

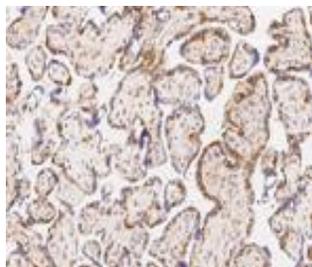
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Synthetic peptide corresponding to the N-terminus of the human Msi2
Localization:	Nucleus, cytoplasm
Formulation:	Protein A purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
Musashi2 (Msi2) Polyclonal Concentrated	RC0283	1 ml
Musashi2 (Msi2) Polyclonal Prediluted	RC0283RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Breast or lung cancer, testis, kidney, colon, transitional cell cancer
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-Musashi2 using DAB

References:

1. Musashi interaction with poly(A)-binding protein is required for activation of target mRNA translation. Cragle CE, et al. J Biol Chem 294:10969-10986, 2019.
2. Antagonism between the RNA-binding protein Musashi1 and miR-137 and its potential impact on neurogenesis and glioblastoma development. Velasco MX, et al. RNA 25:768-782, 2019.

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Rev. A