Product Name: KD-Validated Musashi RNA Binding Protein 2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01010
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 35.2kDa

Antigen Information

Gene Name	MSI2
Alternative Names	Musashi RNA Binding Protein 2; RNA-Binding Protein Musashi Homolog 2; Musashi-2; Musashi Homolog 2 (Drosophila); Musashi Homolog 2; MSI2H
Gene ID	124540.0
SwissProt ID	Q96DH6
Immunogen	A synthesized peptide derived from human MSI2

Background

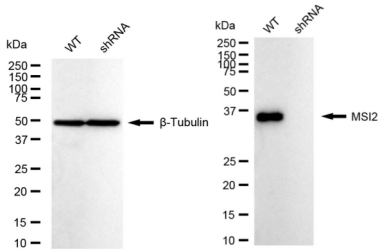
This gene encodes an RNA-binding protein that is a member of the Musashi protein family. The encoded protein is transcriptional regulator that targets genes involved in development and cell cycle regulation. Mutations in this gene are

associated with poor prognosis in certain types of cancers. This gene has also been shown to be rearranged in certain cancer cells. [provided by RefSeq, Apr 2016]

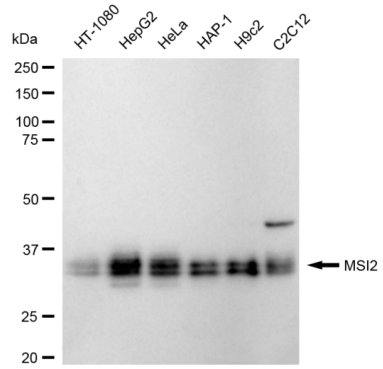
Research Area

Epigenetics and Nuclear Signaling

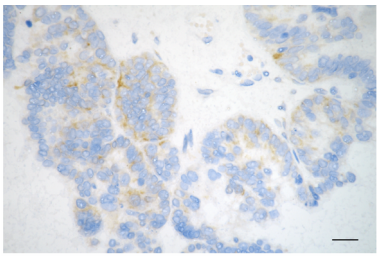
Image Data



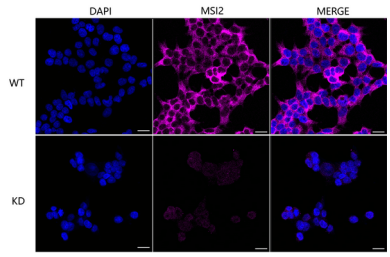
Western blotting analysis using MSI2 antibody (KVAb01010). MSI2 expression in wild type (WT) and MSI2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MSI2 antibody (KVAb01010, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



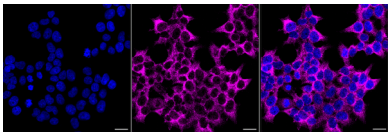
Western blotting analysis using MSI2 antibody (KVAb01010). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MSI2 antibody (KVAb01010, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



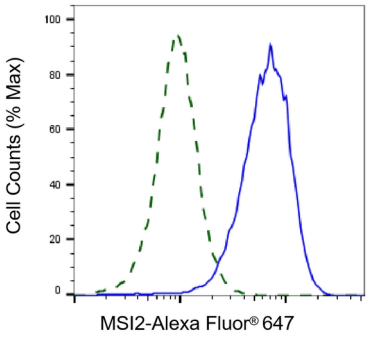
Immunohistochemistry was performed on paraffin-embedded human ovarian carcinoma
using MSI2 antibody (KVAb01010, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



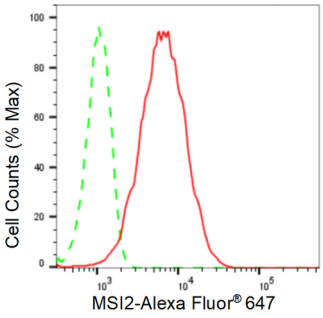
Immunocytochemical staining of HeLa cells using MSI2 antibody (KVAb01010, 1:1,000), Top panel: wild-type (WT); Bottom panal: MSI2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; MSI2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with MSI2 antibody (KVAb01010, 1:1,000). Nuclei were stained blue with DAPI; MSI2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of MSI2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MSI2 antibody (KVAb01010, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MSI2 expression in HepG2 cells using MSI2 antibody (KVAb01010, 1:2,000). Green, isotype control; red, MSI2.