

Product Name: KD-Validated RBMS1 Mouse Monoclonal Antibody**Catalog #: KVA00041**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.5kDa

Antigen Information

Gene Name	RBMS1
Alternative Names	RBMS1; RNA Binding Motif Single Stranded Interacting Protein 1; SCR2; C2orf12; MSSP-1; MSSP-2; MSSP-3; HCC-4; YC1; RNA-Binding Motif, Single-Stranded-Interacting Protein 1; Suppressor Of Cdc 2 (Cdc13) With RNA Binding Motif 2; Suppressor Of CDC2 With RNA-Binding Motif; C-Myc Gene Single Strand Binding Protein 2; Single-Stranded DNA-Binding Protein MSSP-1; DKFZp564H0764; MSSP; Chromosome 2 Open Reading Frame 12; Cervical Cancer Oncogene 4; MSSP1
Gene ID	5937.0
SwissProt ID	P29558
Immunogen	Recombinant protein of human RBMS1

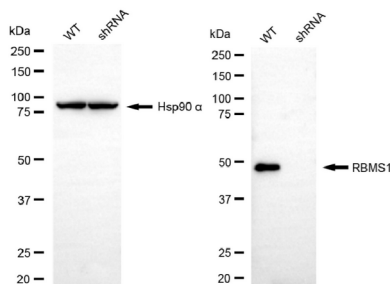
Background

This gene encodes a member of a small family of proteins which bind single stranded DNA/RNA. These proteins are characterized by the presence of two sets of ribonucleoprotein consensus sequence (RNP-CS) that contain conserved motifs, RNP1 and RNP2, originally described in RNA binding proteins, and required for DNA binding. These proteins have been implicated in such diverse functions as DNA replication, gene transcription, cell cycle progression and apoptosis. Several transcript variants, resulting from alternative splicing and encoding different isoforms, have been described. A pseudogene for this locus is found on chromosome 12. [provided by RefSeq, Feb 2009]

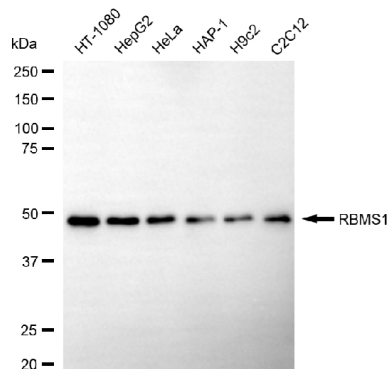
Research Area

Epigenetics and Nuclear Signaling

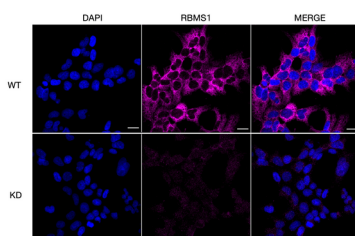
Image Data



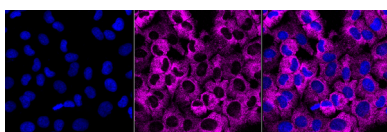
Western blotting analysis using RBMS1 antibody (KVA00041). RBMS1 expression in wild-type (WT) and RBMS1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RBMS1 antibody (KVA00041, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



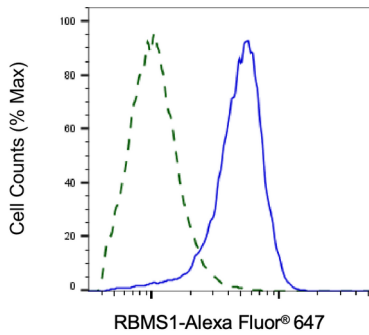
Western blotting analysis using RBMS1 antibody (KVA00041). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RBMS1 antibody (KVA00041, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



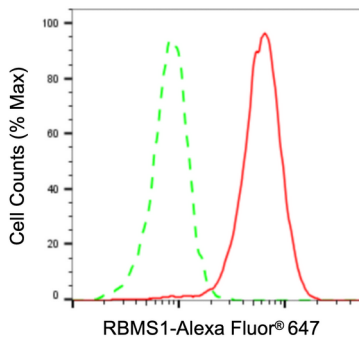
Immunocytochemical staining of HeLa cells using RBMS1 antibody (KVA00041, 1:1,000), Top panel: wild-type (WT); Bottom panel: RBMS1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; RBMS1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HT-1080 cells with RBMS1 antibody (KVA00041, 1:1,000). Nuclei were stained blue with DAPI; RBMS1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of RBMS1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with RBMS1 antibody (KVA00041, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of RBMS1 expression in HT-1080 cells using RBMS1 antibody (KVA00041, 1:2,000). Green, isotype control; red, RBMS1.