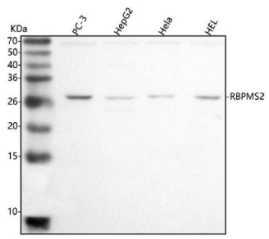
RBPMS2 Antibody / RNA-binding protein with multiple splicing 2 (FY12315)

Catalog No.	Formulation	Size
FY12315	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q6ZRY4
Applications	Western Blot : 0.25-0.5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This RBPMS2 antibody is available for research use only.



Western blot analysis of RBPMS2 using anti-RBPMS2 antibody. Lane 1: human PC-3 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human HEL whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RBPMS2 antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using enhanced chemiluminescent. The expected molecular weight of RBPMS2 is ~22 kDa.

Description

RBPMS2 antibody detects RNA-binding protein with multiple splicing 2, encoded by the RBPMS2 gene on chromosome 15q25.2. RBPMS2 antibody is widely used in developmental biology, muscle biology, and RNA processing research. RBPMS2 belongs to a family of RNA-binding proteins containing RNA recognition motifs that regulate alternative splicing, stability, and translation of target RNAs. Its activity is particularly important in smooth muscle and cardiac muscle development.

Structurally, RBPMS2 is a ~22 kDa protein with a single RNA recognition motif and a glycine-rich C-terminal region. It localizes to the nucleus and cytoplasm, reflecting dual roles in RNA splicing and translational control. The protein is expressed in the gastrointestinal tract, heart, and developing muscle tissues.

Functionally, RBPMS2 regulates alternative splicing of muscle-specific transcripts, supporting differentiation and contractile function. It also stabilizes RNAs involved in muscle signaling pathways and cytoskeletal dynamics. Researchers use RBPMS2 antibody to study RNA regulation, muscle differentiation, and developmental processes.

Clinically, RBPMS2 expression has been implicated in gastrointestinal diseases, cancer, and heart development. Abnormal expression may contribute to smooth muscle dysfunction and tumorigenesis. In zebrafish, RBPMS2 knockdown disrupts heart development, underscoring its conserved role in cardiac biology. NSJ Bioreagents provides RBPMS2 antibody for developmental biology, RNA regulation, and disease research.

Experimentally, RBPMS2 antibody is used in western blotting to detect the ~22 kDa protein, in immunofluorescence microscopy to study nuclear-cytoplasmic distribution, and in immunohistochemistry to evaluate tissue expression. RNA immunoprecipitation with RBPMS2 antibody identifies bound transcripts regulating muscle differentiation.

Application Notes

Optimal dilution of the RBPMS2 antibody should be determined by the researcher.

Immunogen

E.coli-derived human RBPMS2 recombinant protein (Position: K116-Q201) was used as the immunogen for the RBPMS2 antibody.

Storage

After reconstitution, the RBPMS2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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