

Human RBPMS Antibody

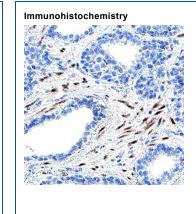
Monoclonal Mouse IgG₁ Clone # 1090828 Catalog Number: MAB11670

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects a peptide specific for human RBPMS around amino acid 150 in Direct ELISA.	
Source	Monoclonal Mouse IgG ₁ Clone # 1090828	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Synthetic Peptide Accession # Q93062	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.	

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.			
	Recommended Concentration	Sample	
Western Blot	2 μg/mL	A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line and JEG-3 human epithelial choriocarcinoma cell line	
Immunohistochemistry	3-25 μg/mL	Immersion fixed paraffin-embedded sections of human testis	

DATA

Detection of Human RBPMS by Western Blot. Western Blot shows lysates of A549 human lung carcinoma cell line, HepG2 human hepatocellular carcinoma cell line and JEG-3 human epithelial choriocarcinoma cell line. PVDF membrane was probed with 2 μg/ml of Mouse Anti-Human RBPMS Monoclonal Antibody (Catalog # MAB11670) followed by HRP-conjugated Anti-Mouse IaG Secondary Antibody (Catalog # HAF018). Specific bands were detected for RBPMS at approximately 28, 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.



Detection of RBPMS in Human Testis. RBPMS was detected in immersion fixed paraffinembedded sections of human testis using Mouse Anti-Human RBPMS Monoclonal Antibody (Catalog # MAB11670) at 5 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001) or the HRP-conjugated Anti-Mouse IaG Secondary Antibody (Catalog # HAF007). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus and cytoplasm of smooth muscle. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection

PREPARATION AND STORAGE

Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store

immediately at the temperature recommended below.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

RBPMS is a 22kDa protein that is a member of the RRM family of RNA-binding proteins. RBPMS has been identified as a critical splicing regulator in differentiated vascular smooth muscle cells. RBPMS is expressed at high levels in the heart, breasts, lungs, kidneys, stomach, muscles, liver, eyes, adipose tissue, and ovaries. Studies in breast cancer and ovarian cancer show that RBPMS has a potential role as a tumor suppressor.

References:

- Nakagaki-Silva EE, Gooding C, Llorian M, Jacob AG, Richards F, Buckroyd A, Sinha S, Smith CWJ. Identification of RBPMS as a mammalian smooth muscle master splicing regulator via proximity of its gene with super-enhancers. Elife. 2019 Jul 8;8:e46327. doi: 10.7554/eLife.46327. PMID: 31283468; PMCID: PMC6613909.
- 2. Rabelo-Fernández RJ, Santiago-Sánchez GS, Sharma RK, Roche-Lima A, Carrion KC, Rivera RAN, Quiñones-Díaz Bl, Rajasekaran S, Siddiqui J, Miles W, Rivera YS, Valiyeva F, Vivas-Mejia PE. Reduced RBPMS Levels Promote Cell Proliferation and Decrease Cisplatin Sensitivity in Ovarian Cancer Cells. Int J Mol Sci. 2022 Jan 4;23(1):535. doi: 10.3390/ijms23010535. PMID: 35008958; PMCID: PMC8745614.