

Human/Mouse MSK2 Antibody

Monoclonal Rat IgG_{2A} Clone # 261034 Catalog Number: MAB2310

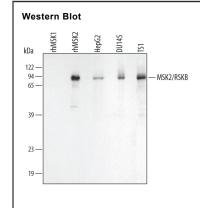
DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects human and mouse MSK2 in Western blots. Does not detect recombinant human MSK1.	
Source	Monoclonal Rat IgG _{2A} Clone # 261034	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human MSK2 Met1-Ser772 Accession # O75676	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

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	1 μg/mL	See Below

DATA



Detection of Human/Mouse MSK2 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. DU145 human prostate carcinoma cell line, and TS1 mouse helper T cell line. PVDF membrane was probed with 1 µg/mL Rat Anti-Human/Mouse MSK2 Monoclonal Antibody (Catalog # MAB2310) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). For additional reference, recombinant human MSK1 and MSK2 (2 ng/lane) were included. A specific band for MSK2 was detected at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.	

BACKGROUND

Mitogen- and stress-activated protein kinase 2 (MSK2), also known as ribosomal protein S6 kinase B (RSKB) and RPS6KA4, belongs to the family of AGC kinases. Both MSK2 and the related MSK1 have two kinase domains connected by a regulatory linker region and are activated by the mitogen-activated protein kinases ERK1, ERK2, and p38. Nuclear MSK phosphorylates and activates a number of transcription factors, including ATF1 and CREB.

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