

Human RSK4 Antibody

Monoclonal Rat IgG_{2A} Clone # 374521 Catalog Number: MAB3916

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human RSK4 in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) RSK1, rhRSK2, or rhRSK3 is observed.	
Source	Monoclonal Rat IgG _{2A} Clone # 374521	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human RSK4 Met1-Leu745 Accession # Q9UK32	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS 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

DATA

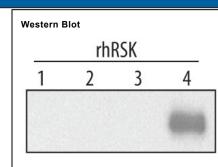
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

Western Blot kDa 122− 94− 65− 39− 23− 19− 7−

Detection of Human RSK4 by Western Blot.

Western blot shows lysates of Raji human Burkitt's lymphoma cell line and Ramos human Burkitt's lymphoma cell line. PVDF membrane was probed with 2 µg/mL Rat Anti-Human RSK4 Monoclonal Antibody (Catalog # MAB3916) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band for RSK4 was detected at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human RSK4 by Western Blot.

Western blot shows Recombinant Human Active RSK1 (Catalog # 992-KS), recombinant human RSK2, recombinant human RSK3, and recombinant human RSK4 (2 ng/lane). PVDF membrane was probed with 2 µg/mL Rat Anti-Human RSK4 Monoclonal Antibody (Catalog # MAB3916) followed by HRPconjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band for RSK4 was detected at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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

The 90 kDa ribosomal protein S6 kinases (RSK1-4) are a family of broadly expressed Ser/Thr kinases frequently activated in response to mitogenic stimuli, including growth factors and tumor-promoting phorbol esters. RSK4, also known as RPS6KA6, is commonly deleted in patients with complex X-linked mental retardation. Unlike other RSKs, RSK4 is constitutively active in serum-starved cells, and may participate in non-growth factor signaling.

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