

DESCRIPTION

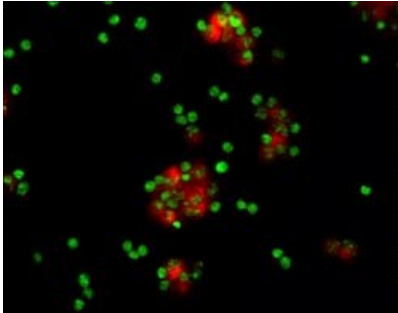
Species Reactivity	Human
Specificity	Detects human MSK1 but not human MSK2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 252608
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MSK1 Met1-Ala802 Accession # O75582
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 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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Immunocytochemistry</p> 	<p>MSK1 in Human Lymphocytes. MSK1 was detected in immersion fixed human lymphocytes using 8 µg/mL Human MSK1 Monoclonal Antibody (Catalog # MAB2518) for 3 hours at room temperature. Cells were stained (red) and counterstained (green). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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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. <ul style="list-style-type: none"> ● 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 1 (MSK1), also known as 90 kDa ribosomal protein S6 kinase 5 (RPS6KA5), belongs to the AGC family of kinases. Both MSK1 and the related MSK2 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.