

Mouse Monoclonal Antibody to PRAK

Catalogue Number	sAP-0120
Target Molecule	<p>Name: PRAK</p> <p>Aliases: PRAK; MAPKAPK5</p> <p>MW: N/A</p> <p>Entrez Gene ID: 8550</p>
Description	PRAK (p38-regulated /activated kinase), also referred to as mitogen-activated protein kinase (MAPK)-activated protein kinase (MAPKAPK)-5, is an ubiquitously expressed serine/threonine kinase regulated by p38 α and p38 β MAP kinases. Activated JNK, p38 γ or p38 δ are unable to induce phosphorylation of PRAK in vitro. Phosphorylation of PRAK occurs in vivo in response to p38 activation by stress-related extracellular stimuli including UV light, oxidation and proinflammatory cytokines. Two other substrates for p38, MAPKAPK-2 and MAPKAPK-3/3pK, share approximately 45% sequence homology with PRAK including the phosphorylation motif recognized by p38, Lys-X-Thr-Pro. Activated PRAK has been shown to specifically phosphorylate HSP 27 in vitro, suggesting that the protein may play a role in stress-induced small heat
Immunogen	Purified recombinant fragment of PRAK expressed in E. Coli.
Reactive Species	Human
Clone	MM7H10B4;
Size and Concentration	100 μ g/1mg/ml
Supplied as	Lyophilized Powder from 100 μ l of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100 μ l sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Paliga AJ. Natale DR. Watson AJ. Biol Cell. 2005, Aug, 97(8):629-40. ; 2. Wijten PJ. Prak R. Lemme A. et al. Br Poult Sci. 2004, Aug, 45(4):504-11. ; 3. New L. Jiang Y. Han J. Mol Biol Cell. 2003, Jun, 14(6):2603-16. Epub 2003 Mar 20. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**