

Product datasheet for **AM06183SU-N**

PRAK (MAPKAPK5) Mouse Monoclonal Antibody [Clone ID: 7H10B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7H10B4
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western Blotting: 1/500 - 1/2000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of PRAK expressed in E. Coli.
Specificity:	Recognizes PRAK (p38-regulated /activated kinase).
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	mitogen-activated protein kinase-activated protein kinase 5
Database Link:	Entrez Gene 8550 Human Q8IW41



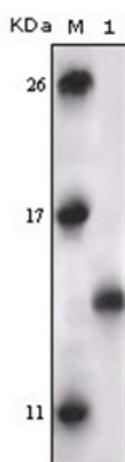
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Background:

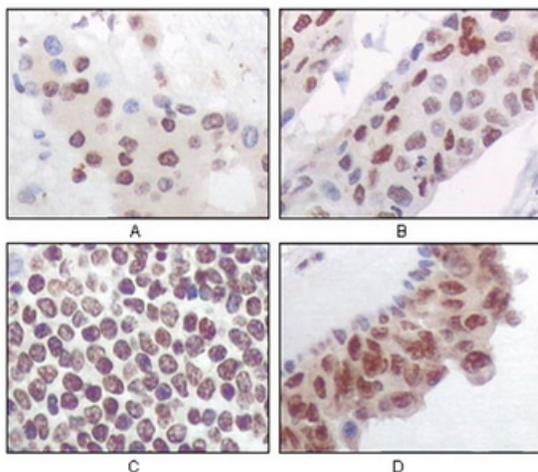
PRAK (p38-regulated /activated kinase), also referred to as mitogen-activated protein kinase (MAPK)-activated protein kinase (MAPKAPK)-5, is an ubiquitously expressed serine/threonine kinase regulated by p38 α and p38 β MAP kinases. Activated JNK, p38 γ or p38 δ are unable to induce phosphorylation of 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 shock protein phosphorylation in vivo.

Synonyms:

MAPK-activated protein kinase 5, MAPKAP kinase 5, MAPKAPK5, PRAK

Product images:

Western blot analysis using PRAK antibody Cat.-No AM06183SU-N against truncated PRAK recombinant protein.



Immunohistochemical analysis of paraffin-embedded human liver carcinoma (A), esophagus carcinoma (B), normal spleen tissue (C), breast carcinoma (D), showing nuclear and cytoplasmic localization using PRAK antibody Cat.-No AM06183SU-N with DAB staining.