Datasheet for ABIN969362

anti-MAPKAP Kinase 5 antibody

2 Images | 3 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	MAPKAP Kinase 5 (MAPKAPK5)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Purified recombinant fragment of PRAK expressed in E. coli.
Clone:	7H10B4
Isotype:	IgG1
Purification:	purified

Target Details

Target:	MAPKAP Kinase 5 (MAPKAPK5)
Alternative Name:	PRAK (MAPKAPK5 Products)
Background:	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 p38a and p38ß MAP kinases. Activated JNK, p38? or p38d 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

Target Details

	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. Aliases: PRAK, MAPKAPK5
Gene ID:	8550
HGNC:	8550
Pathways:	MAPK Signaling

Application Details

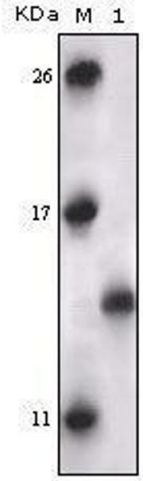
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

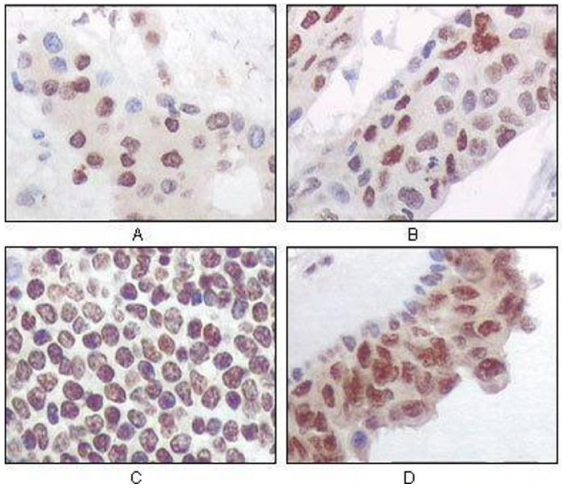
Publications

Product cited in:	Trilck, Peter, Zheng, Frank, Dobrenis, Mascher, Rolfs, Frech: "Diversity of glycosphingolipid GM2 and cholesterol accumulation in NPC1 patient-specific iPSC-derived neurons." in: **Brain research**, Vol. 1657, pp. 52-61, (2016) (PubMed).



Western Blotting

Image 1. Western blot analysis using PRAK mouse mAb against truncated PRAK recombinant protein.



Immunohistochemistry

Image 2. 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 mouse mAb with DAB staining.

