PRAK (Phospho-T182) polyclonal antibody

Catalog: BS67592 Host: Rabbit Reactivity: Human

BackGround:

MAPKAPK-5 belongs to the mitogen-activated protein kinase (MAPK) activated protein kinases (MK) subfamily that includes MAPKAPK-2/MK2 and MK3/3pK. The MK subfamily is part of a family of protein kinase subfamilies downstream of MAPK pathways and includes ribosomal S6 kinase (RSKs), mitogen and stress activated kinases (MSKs) and MAPK-interacting kinases (MNKs). All MKs are activated by MAPK pathways and mediate important processes (e.g. gene expression, cell cycle progression) and have been implicated in inflammation and cancer . MAPKAPK-5 shows binding to and activation by p38 MAPK and extracellular-regulated kinases (Erk) . MAPKAPK-5 was shown to be activated by Erk3 and act as a chaperone to Erk3 . While overexpressed MAPKAPK-5 shares similar substrates with MAPKAPK-2, such as HSP27 and glycogen synthase, recent work with MAPKAPK-5 knock-out mice indicates distinct substrates and functional properties .

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 50 kDa

Swiss-Prot:

Q8IW41

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

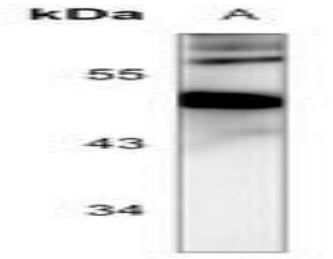
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

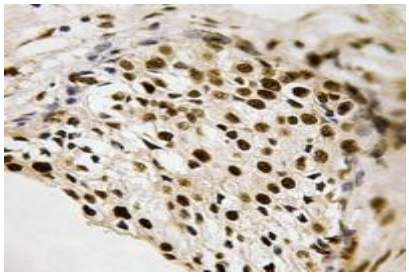
Specificity:

Recognizes endogenous levels of PRAK with a phosphorylation site at T182 protein.

DATA:



Western blot analysis of PRAK (pT182) expression in HCT116 (A) whole cell lysates.



Immunohistochemical analysis of PRAK (pT182) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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