

3pK Polyclonal Antibody

Catalog No: YT0014

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: 3pK

Fields: >>MAPK signaling pathway;>>VEGF signaling pathway

Gene Name: MAPKAPK3

Protein Name: MAP kinase-activated protein kinase 3

Human Gene Id: 7867

Human Swiss Prot

Q16644

No:

Mouse Gene ld: 102626

Mouse Swiss Prot

Q3UMW7

No:

Rat Gene Id: 315994

Rat Swiss Prot No: Q66H84

Immunogen: The antiserum was produced against synthesized peptide derived from human

MAPK3. AA range:301-350

Specificity: 3pK Polyclonal Antibody detects endogenous levels of 3pK protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 42kD

Cell Pathway: MAPK_ERK_Growth;MAPK_G_Protein;VEGF;

Background: This gene encodes a member of the Ser/Thr protein kinase family. This kinase

functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to

be involved in the regulation of tissue-specific gene expression and

Function: catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Modulator

of polycomb-mediated repression, which can be activated either by ERK, p38 and JNK. Substrate of CSBP. In vitro, phosphorylates HSPB1, BMI1/PCGF4 and TCF3., similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein

kinase family., similarity: Contains 1 protein kinase domain., subcellular

location:Predominantly located in the nucleus, when activated it translocates to the cytoplasm.,subunit:Interacts with TCF3 and with polycomb proteins, such as PCH2 and BMI1/PCGF4.,tissue specificity:Widely expressed, with a higher expression level observed in heart and skeletal muscle. No expression in brain.,

Subcellular Location:

Nucleus . Cytoplasm . Predominantly located in the nucleus, when activated it

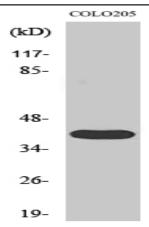
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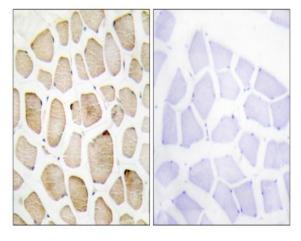
muscle. No expression in brain. Expressed in the retinal pigment epithelium

(PubMed:26744326).

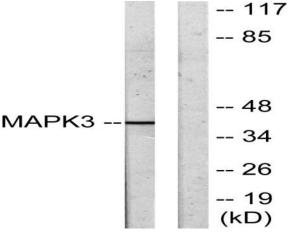
Products Images



Western Blot analysis of various cells using 3pK Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle tissue, using MAPK3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO205 cells, using MAPK3 Antibody. The lane on the right is blocked with the synthesized peptide.