

## Anti-MAPKAPK3 Antibody (5K175)

## Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5K175
Purification:	Protein A

## Applications

Verified Activity:	Immunochemical staining of human MAPKAPK3 in human skeletal muscle with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:50-1:200

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human MAPKAPK3/MK3 Protein (TMPY-04378)
Antigen Species:	Human
Synonyms:	MAPKAP3;3PK;mitogen-activated protein kinase-activated protein kinase 3;MAPKAPK-3;MAPKAP-K3;MK-3

## Research Background

The MAPKAP kinases are a group of MAP kinase substrates that are themselves kinases. In response to activation, the MAP kinases phosphorylate downstream components on a consensus Pro-X-Ser/Thr-Pro motif. Several kinases that contain this motif have been identified and serve as substrates for the ERK and p38 MAP kinases. Mitogen-activated protein (MAP) kinase-activated protein kinase 3, also known as MAPKAPK-3 and 3pK, is a member of the Ser/Thr protein kinase family. It is widely expressed in human tissues, with a higher expression level observed in the heart and skeletal muscle. No expression in the brain. MAPKAPK-3 is unique since it was shown to be activated by three members of the MAPK family, namely extracellular-signal-regulated kinase (ERK), p38, and Jun-N-terminal kinase (JNK). It is highly activated both by mitogens and by stress-inducing agents or proinflammatory cytokines and translocates to the cytoplasm from the nucleus. MAPKAPK-3 is exclusively activated via the classical MAPK cascade, while stress-induced activation of MAPKAPK-3 is mainly mediated by p38, however, the mechanism defining the specificity remains unknown.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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