Revision 1

#9613 Store at -20C

MAP4K3 Antibody

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	101	Rabbit	#Q8IVH8	8491

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MAP4K3 Antibody recognizes endogenous levels of total MAP4K3 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly407 of human MAP4K3 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The mTORC1 kinase complex is a critical regulator of cell growth (1,2). Its activity is modulated by growth factors and nutrients including amino acids (1,2). MAP4K3 is a mediator between nutrient signal and mTORC1 (1). Research studies suggest that amino acid sufficiency leads to the phosphorylation of Ser170 on MAP4K3, which activates mTORC1 (3).

Background References

1. Findlay, G.M. et al. (2007) *Biochem J* 403, 13-20.
2. Sancak, Y. et al. (2008) *Science* 320, 1496-501.
3. Yan, L. et al. (2010) *Mol Cell* 37, 633-42.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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