



# Rabbit Anti-MAP3K3 monoclonal antibody, clone TE1940 (CABT-L813)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	MEKK3
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TE1940
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC, IP, FC
<b>Molecular Weight</b>	71 kDa
<b>Cellular Localization</b>	Cytoplasm.
<b>Positive Control</b>	A431, 293T, MCF-7, Hela, SKOV-3, rat uterus tissue, mouse uterus tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

**Storage**

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## BACKGROUND

**Introduction**

MAP kinase kinase kinase (MEKK3 or MAP3K3) is a serine/threonine protein kinase that activates SAPK and ERK via phosphorylation and activation of their respective MAP kinase kinases, SEK and MEK1/2. MEKK3 also stimulates MEK5 via activation of ERK5/BMK1, which is at least partly regulated by a direct interaction between MEK5 and MEKK3 via p67phox-Bem1p (PB1) protein-protein interaction domains found in both proteins. MEKK3 modulates NF- $\kappa$ B activation in response to a variety of agonists including TNF $\alpha$ , LPS, IL-1 and LPA. Despite reports showing that phosphorylation of MEKK3 at Ser526 within the activation loop is necessary for kinase activation, at least one study suggests that dual phosphorylation at Thr516 and Ser520 is required for LPA-stimulated IKK $\beta$ /NF- $\kappa$ B activation. Phosphorylation at Thr294 appears to negatively regulate MEKK3 by promoting 14-3-3 $\beta$  binding and inhibition of the kinase activity.

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**Keywords**

M3K3\_HUMAN;MAP/ERK kinase kinase 3;MAP3K3;MAPK/ERK kinase kinase 3;MAPKKK3;MEK kinase 3;MEKK 3;MEKK3;Mitogen activated protein kinase kinase kinase 3;Mitogen-activated protein kinase kinase kinase 3 antibody

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