



Rabbit Anti-Human MEK3 monoclonal antibody, clone 2I9M25 (CABT-L1457)

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

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with Monkey, Dog, Cat, Mouse
Target	MAP2K3
Immunogen	Peptides corresponding to human MEK3 (aa16-28, 329-346)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	2I9M25
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, ICC, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.4
Preservative	0.09% Sodium Azide
Storage	-20°C, Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction

MKK3 (MEK3) is a dual specificity protein kinase that belongs to the MAP kinase kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of *Yersina pseudotuberculosis*. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene.

Keywords

MAP2K3;mitogen-activated protein kinase 3;MEK3;MKK3;MAPKK3;PRKMK3;SAPKK2;SAPKK-2;dual specificity mitogen-activated protein kinase kinase 3;MEK 3;MAPKK 3;SAPK kinase 2;MAPK/ERK kinase 3;MAP kinase kinase 3;stress-activated protein kinase kinase 2

GENE INFORMATION

Entrez Gene ID

[5606](#)

UniProt ID

[P46734](#)