

Recombinant MEK5 Monoclonal Antibody

catalog number: AN301907L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

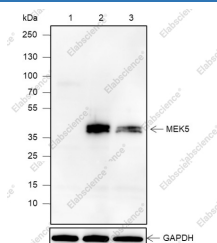
Reactivity	Human
Immunogen	Recombinant human MEK5 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331528
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

WB	1:1000
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Data



Western Blot with MEK5 Monoclonal Antibody at dilution of 1:1000. Lane 1: Raji (negative control), Lane 2: JAR, Lane 3: HepG2

Observed-MW: 49, 50 kDa

Calculated-MW: 49, 50 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

MEK5 is a dual specific kinase that specifically activates ERK5 involved in the regulation of diverse cellular processes, including cell growth, survival, and differentiation. The MEK5-ERK5 pathway is activated in numerous cancer types and plays a role in tumor growth and metastasis. Pharmacological targeting of the MEK5-ERK5 pathway has been investigated as a strategy for cancer treatment. MEK5 is activated by a variety of stimuli, including growth factors, cytokines, and oxidative stress. Activation of MEK5 is triggered by upstream kinases MEKK2 and MEKK3, leading to phosphorylation of MEK5 at Ser311 and Thr315, which subsequently leads to MEK5 dependent phosphorylation of ERK5 at Thr218 and Tyr220. Phosphorylation of ERK5 leads to nuclear translocation and regulation of several oncogenic transcription factors, including MEF2C, c-Fos, c-Myc, and Sap1.

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