

**Rabbit Anti-MAP3K3/MEKK3 (Mitogen-Activated Protein Kinase Kinase 3) [5C1]: RM0310**

**Intended Use:** For Research Use Only

**Description:** MEKKs (Mitogen activated protein kinase kinase kinases) are serine-threonine kinases that act as the first tier of cellular MAP kinase pathways by activation of MAP/ERK kinases, or MEKs. Many enzymes with MEKK activity have been identified, including MEKK1-4, Raf, MLK3, TAK, and DLK. MEKKs generally display little similarity outside of their catalytic kinase domains. MEKK1-4 are nearly 50% identical within their catalytic domains, and are known to regulate Erk, Jnk, and p38 MAP kinase pathways. MEKK2 and MEKK3 bind MEK5 via conserved PB1 domains, leading to downstream activation of Erk5.

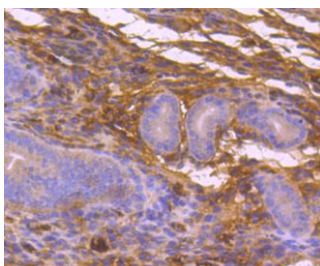
**Specifications**

Clone: 5C1  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human, mouse, rat  
 Localization: Cytoplasm  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF, WB  
 Package:

Description	Catalog No.	Size
MAP3K3/MEKK3 (Mitogen-Activated Protein Kinase Kinase Kinase 3) Concentrated	RM0310	1 ml

**IHC Procedure**

Positive Control Tissue: Ovary carcinoma, HeLa cells  
 Concentrated Dilution: 10-50  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: Overnight @ 4°C  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE mouse uterus stained with anti-MEKK3 using DAB

**References:**

1. PLX4032, a selective BRAF(V600E) kinase inhibitor, activates the ERK pathway and enhances cell migration and proliferation of BRAF melanoma cells. Halaban R, et al. Pigment Cell Melanoma Res 23:190-200, 2010.
2. Phosphorylation of MEKK3 at threonine 294 promotes 14-3-3 association to inhibit nuclear factor kappaB activation. Matitau AE & Scheid MP. J Biol Chem 283:13261-8, 2008.
3. Expression profiles of protein tyrosine kinase genes in human embryonic stem cells. Son MY, et al. Reproduction 136:423-32, 2008.

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