

# **Human/Mouse/Rat MEK2 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 300317 Catalog Number: MAB2855

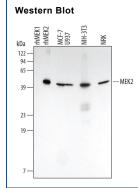
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human, mouse, and rat MEK2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant hur (rh) MEK1 or rhMEK5 is observed.		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 300317		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human MEK2 Met1-Val400 Accession # P36507		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

## APPLICATIONS

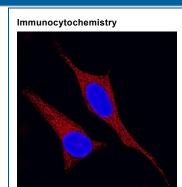
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below
Immunocytochemistry	8-25 μg/mL	See Below

#### ΠΔΤΔ



Detection of Human/Mouse/Rat MEK2 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line. U937 human histiocytic lymphoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and NRK rat normal kidney cell. PVDF membrane was probed with 0.5 µg/mL Mouse Anti-Human/Mouse/Rat MEK2 Monoclonal Antibody (Catalog # MAB2855) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog #HAF007). For additional reference, recombinant human MEK1 and Recombinant Human Active MEK2 (Catalog # Catalog # 2855-KS) (5 ng/lane) were included. A specific band for MEK2 was detected at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.



MEK2 in HeLa Human Cell Line. MEK2 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human/Mouse/Rat MEK2 Monoclonal Antibody (Catalog # MAB2855) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthemLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Mitogen-activated protein kinase kinase 2 (MEK2 or MAP2K2), also known as MKK2, belongs to the STE family of kinases. Both MEK2 and the related MEK1 are dual-specificity kinases, phosphorylating and activating the mitogen-activated protein kinases ERK1 and ERK2 at T and Y positions within the phosphoacceptor sequence T-E-Y. Activation of MEK2 by Raf occurs through phosphorylation at S222 and S226.

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