# Anti-MEK7 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013984

## Product Information

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|---|---|
| Application | ELISA, IF (Cell)/ICC, WB |
| Reactivity | Mouse, Rat, Human |
| Dilution | WB 1:1,000~1:2,000; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 40E23B91 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human MEK7 |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-MEK7 Rabbit mAb [40E23B91] is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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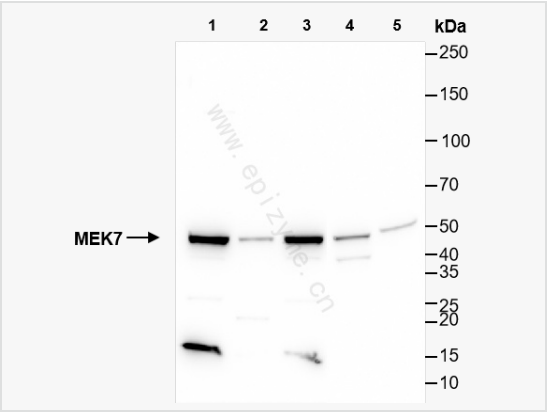
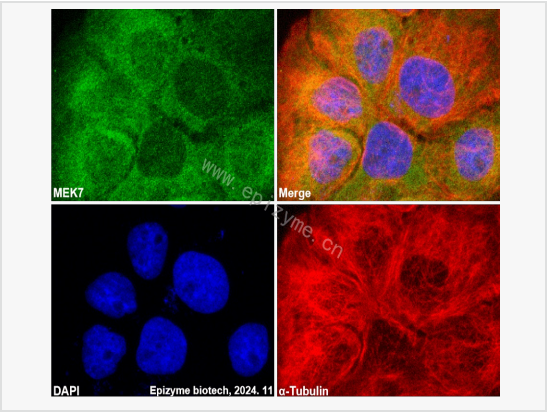
|---|---|
| Synonyms | c-Jun N-terminal kinase kinase 2, Dual specificity mitogen activated protein kinase kinase 7, Dual specificity mitogen-activated protein kinase kinase 7, JNK activating kinase 2, JNK kinase 2, JNK-activating kinase 2, JNKK 2, Jnkk-2, Jnkk2, MAP kinase kinase 7, MAP2K7, MAPK/ERK kinase 7, MAPKK 7, MAPKK-7, MAPKK7, MEK 7, Mitogen Activated Protein Kinase kinase 7, MKK 7, MKK-7, MKK7, MP2K7_HUMAN, PRKMK 7, PRKMK-7, PRKMK7, SAPK kinase 4, SAPKK-4, SAPKK4, Sek 2, Sek-2, Sek2, SKK4, stress-activated protein kinase kinase 4. |
| Calculated MW | Calculated MW: 47 kDa; Observed MW: 47 kDa |
| Uniprot ID | O14733 |
| Gene ID | 5609 |
| Background | MKK7 is strongly activated by TNF-α, as well as other environmental stresses, whereas SEK1/MKK4, which activates both p38 and SAPK/JNK pathways, is not activated by TNF-α. Sequence alignment of the activation loop of the MAP kinase kinase family members indicates that Ser271 and Thr275 are potential phosphorylation sites that are crucial for the kinase acivity. |
| Cellular Location | Nucleus. Cytoplasm. |
| Tissue Location | Ubiquitous; with highest level of expression in skeletal muscle. Isoform 3 is found at low levels in placenta, fetal liver, and skeletal muscle. |

## Validation Images




Western Blot - Anti-MEK7 Rabbit mAb [40E23B91]
All lanes: R013984 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: Rat spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 47 kDa
Observed band size: 47 kDa
Developed using the ECL technique (Cat. No. SQ201).




Immunofluorescence - Anti-MEK7 Rabbit mAb [40E23B91]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013984 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).