

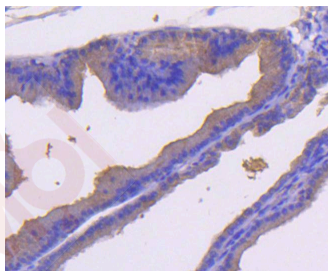
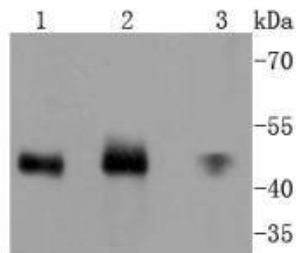
## Anti-MEK-7 Antibody (9U312)

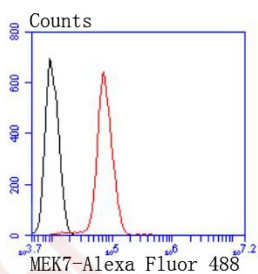
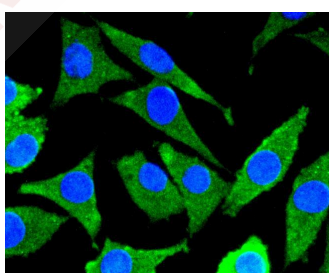
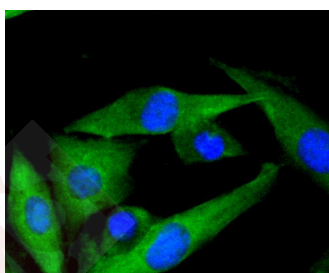
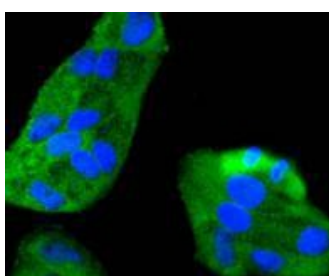
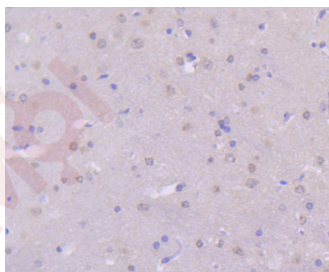
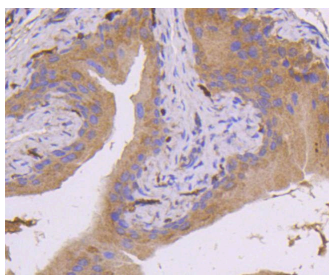
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 47 kDa.
Clone:	9U312
Purification:	ProA affinity purified

### Applications

1. Western blot analysis of MEK7 on different lysates using anti-MEK7 antibody at 1/1,000 dilution. Positive control: Lane 1: HeLa, Lane 2: 293T, Lane 3: A431.
  2. Immunohistochemical analysis of paraffin-embedded rat bladder tissue using anti-MEK7 antibody. Counter stained with hematoxylin.
  3. Immunohistochemical analysis of paraffin-embedded mouse bladder tissue using anti-MEK7 antibody. Counter stained with hematoxylin.
  4. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-MEK7 antibody. Counter stained with hematoxylin.
- Verified Activity:
5. ICC staining MEK7 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
  6. ICC staining MEK7 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
  7. ICC staining MEK7 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
  8. Flow cytometric analysis of HeLa cells with MEK7 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O14733

Synonyms: MAPKK-7;Jnkk2;SAPKK-4;MAPK/ERK kinase 7;c-Jun N-terminal kinase kinase 2;MP2K7\_HUMAN;MKK7;JNK kinase 2;MAP kinase kinase 7;JNK activating kinase 2;JNK-activating kinase 2;Dual specificity mitogen-activated protein kinase kinase 7;Sek 2;Mitogen Activated Protein Kinase kinase 7;MKK 7;PRKMK7;MAPKK7;stress-activated protein kinase kinase 4;MAP2K7;SKK4;MEK7;PRKMK 7;Jnkk-2;MAPKK 7;Sek2;MKK-7;JNKK 2;Sek-2;SAPK kinase 4;SAPKK4;PRKMK-7;Dual specificity mitogen activated protein kinase kinase 7

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### Research Background

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK5, whereas MEK-6 phosphorylates p38 and p38b. MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

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