Monoclonal Anti-human MKK7 Antibody

ORDERING INFORMATION

Catalog Number: MAB3579

Clone: 324302

Lot Number: YOP01

Size: 100 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Specificity: human MKK7

Immunogen: *E. coli*-derived rhMKK7

Ig class: mouse IgG_{2B}

Recommended Application:
Immunohistochemistry

Background

Mitogen-activated protein kinase kinase 7 (MKK7 or MAP2K7), also known as Jun kinase kinase 2 (JNKK2), is activated by proinflammatory cytokines and environmental stresses. Activation occurs through phosphorylation at Ser 271 and Thr 275 by several upstream MAPK kinase kinases (MAP3Ks). MKK7 is a dual specificity protein kinase, phosphorylating and activating the JNK family of MAP kinases at Thr and Tyr positions within the phosphoacceptor sequence Thr-Pro-Tyr.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived full-length recombinant human MKK7 (rhMKK7; aa 1 - 419; Accession # O14733). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 μg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody was selected for its ability to detect human MKK7 by immunohistochemistry. Reactivity with MKK7 from other species has not been determined. Using direct ELISA, the antibody does not detect rhMKK4.

Application

Immunohistochemistry - This antibody was used at a concentration of 25 μg/mL with the appropriate secondary reagents to detect MKK7 in paraffin-embedded human skeletal muscle tissue sections. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

Optimal dilutions should be determined by each laboratory for each application.

For immunohistochemistry images, please refer to our website at http://www.RnDSystems.com/ihc.

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