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EB06751-T - Goat Anti-MAPK3/ERK1 Antibody - Trial

Size: 20µg specific antibody in 40µl

Target Protein

Principal Names: MAPK3, ERK1, mitogen-activated protein kinase 3, HGNC:6877, P44ERK1, P44MAPK, PRKM3, protein kinase, mitogen-activated 3 (MAP kinase 3 p44), HS44KDAP, HUMKER1A, MGC20180, OTTHUMP00000174538, extracellular signal-regulated kinase 1, extracellular signal-related kinase 1
Official Symbol: MAPK3
Accession Number(s): NP_002737.2; NP_001035145.1; NP_001103361.1
Human GeneID(s): 5595
Important Comments: No cross-reactivity expected with ERK2

Immunogen

Peptide with sequence GGEPRRTEGVGP-C, from the N Terminus of the protein sequence according to NP_002737.2; NP_001035145.1; NP_001103361.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:4000.
Western blot: Approx 40kDa band observed in Human Cerebellum lysates and in lysates of cell lines A431 and HepG2, and approx 42kDa obseved in Human Frontal Cortex lysates (calculated MW of 40.1kDa according to NP_001035145.1 and 43.1kDa according to NP_002737.2). Recommended concentration: 0.1-1µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of HeLa and A431 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human
Expected from sequence similarity: Human

EB06751 (0.1µg/ml) staining of Human Cerebellum (A) and Frontal Cortex (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06751 (1µg/ml) staining of A431 (A) and (0.3ug/ml) HepG2 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06751 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB06751 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB06751 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.