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Research Use Only. Not for diagnostic or therapeutic use.

EB11926 - Goat Anti-ERK3 / MAPK6 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: MAPK6, mitogen-activated protein kinase 6, ERK3, HsT17250, PRKM6, p97MAPK, ERK-3, MAP kinase 6, MAP kinase isoform p97, MAPK 6, extracellular signal-regulated kinase 3, extracellular signal-regulated kinase, p97, p97-MAPK, protein kinase, mitogen-activated 5, protein kinase, mitogen-activated 6

Official Symbol: Mapk6

Accession Number(s): NP_002739.1

Human GeneID(s): 5597

Non-Human GenelD(s): 50772 (mouse), 58840 (rat)

Important Comments: Reported variants represent identical protein (NP_056621.4;

NP_081694.1).

Immunogen

Peptide with sequence C-HSPVGSPLKSIQ, from the internal region (near C Terminus) of the protein sequence according to NP_002739.1.

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 1:128000.

Western blot: In transfected HEK293 transiently expressing Mouse ERK3 / Mapk6 fused to GFP the band with expected size is intensified when co-expressed with MK5 as the stabilizer for ERK3. No bands are observed in transfected HEK293 with empty vector and the same band is observed using anti-GFP antibody. Data obtained from Dr. M. B. Menon, Inst. Biochemistry, Hannover Medical School, Germany. Recommended concentration, $0.5-1\mu g/ml$.

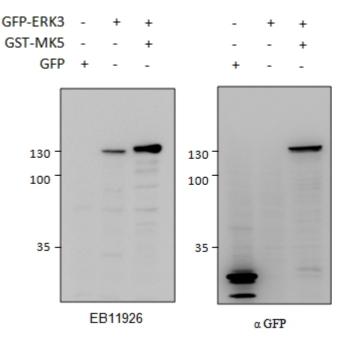
IHC: Paraffin embedded Human Heart. Recommended concentration: 10µg/ml.

Immunoprecipitation: MK5/ERK3 double knockout Mouse Embryonic Fibroblasts (MEFs) retrovirally transduced with MK5/ERK3 or empty vector (GFP) were lysed from confluent plates and used for IP with 1.5ug EB11926. Western blots of the IP were labelled with rabbit anti-ERK3 serum (CST) or with mouse anti-MK5 (SC). An approx 100kDa of ERK3 is only precipitated from lysates of those KO MEFs that have been rescued by the ERK3/MK5 expression construct as described in as described in PMID: 22508986. Data obtained from Dr. M. B. Menon, Inst. Biochemistry, Hannover Medical School, Germany.

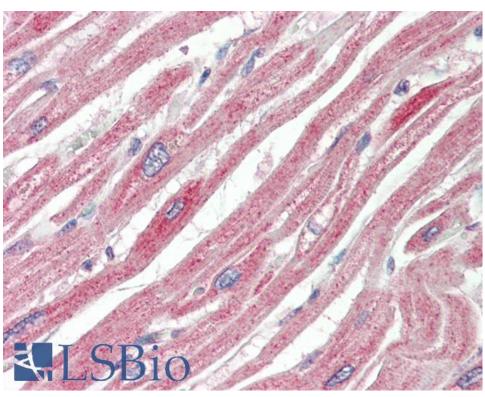
Species Reactivity

Tested: Human, Mouse

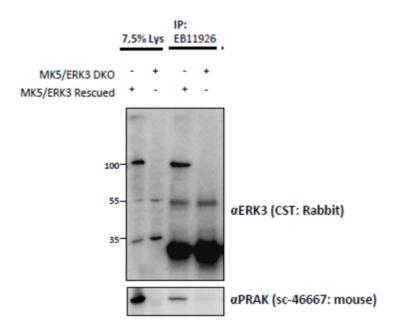
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow



HEK293 lysate (10ug protein in RIPA buffer) overexpressing GFP-fused Mouse ERK3 probed with EB11926 (0.5ug/ml) in left panel and with anti-GFP in right panel. GFP-only exression in the first lane. Primary incubations were for 2 hours. Detected by chemiluminescence.



EB11926 (10µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB11926 (1.5ug) immunoprecipitation from lysates of MK5/ERK3 double knockout MEFs, with (third lane) and without (fourth lane) rescued MK5/ERK3 expression through retroviral transduction. The corresponding lysates (first and second lane resp.) were analyzed in parallel in this Western blot labelled with rabbit anti-Erk3 (and co-precipitation was measured using mouse anti-MK5/PRAK in the lower panel).