

## UK Office

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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 GeneID(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, 0.5-1µg/ml.

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

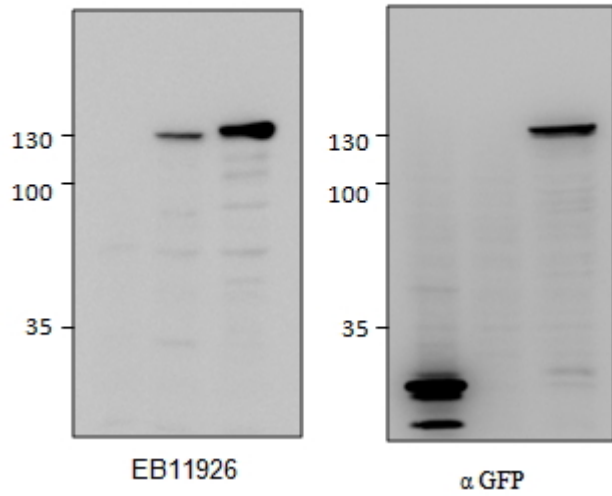
**Immunoprecipitation:** MK5/ERK3 double knockout Mouse Embryonic Fibroblasts (MEFs) retrovirally transduced with MK5/ERK3 or empty vector (GFP) were lysed from confluent plates and used for IP with 1.5ug EB11926. Western blots of the IP were labelled with rabbit anti-ERK3 serum (CST) or with mouse anti-MK5 (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

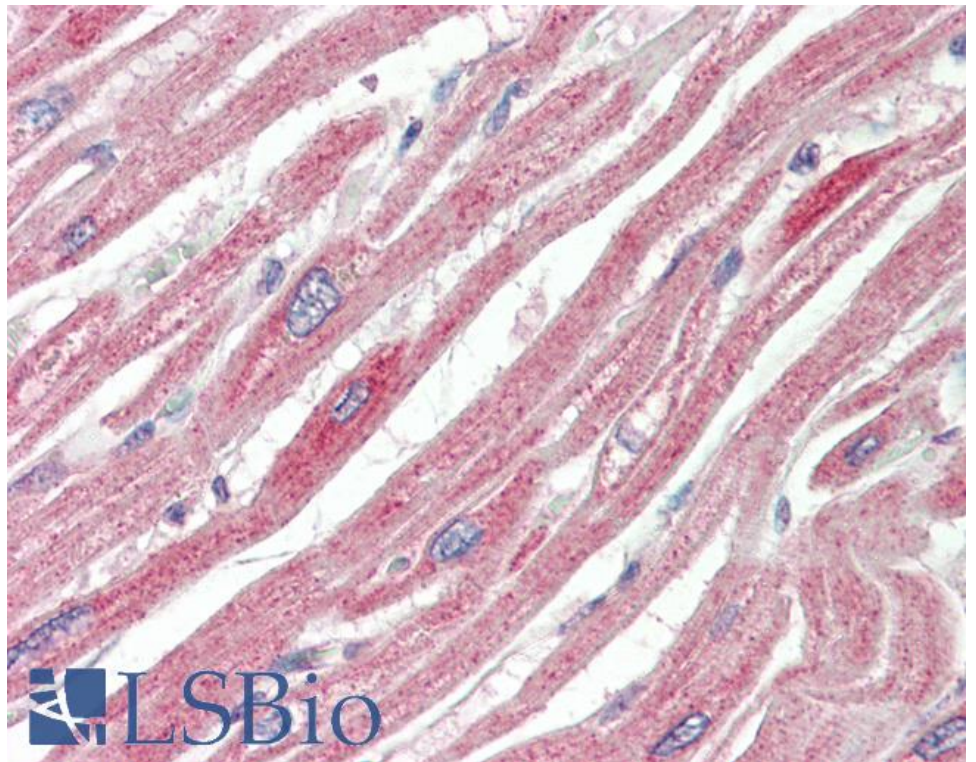
**Tested:** Human, Mouse

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

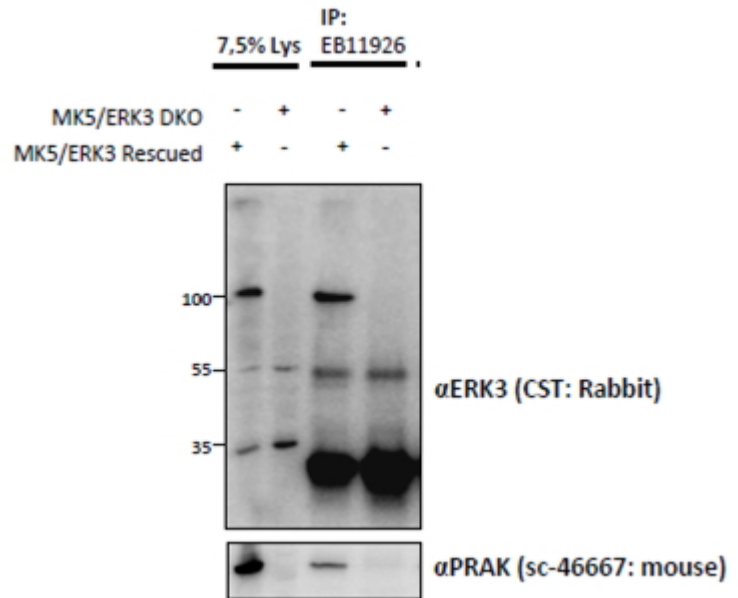
GFP-ERK3	-	+	+	-	+	+
GST-MK5	-	-	+	-	-	+
GFP	+	-	-	+	-	-



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 expression 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).