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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB08796 - Goat Anti-TRPC4 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: TRPC4, transient receptor potential cation channel, subfamily C, member 4, HTRP4, MGC119570, MGC119571, MGC119572, MGC119573, TRP4, transient receptor potential 4

Official Symbol: TRPC4

Accession Number(s): NP_057263.1; NP_003297.1; NP_001129427.1; NP_001129429.1; NP_001129428.1; NP_001129430.1

Human GeneID(s): [7223](#)

Non-Human GeneID(s): 22066 (mouse), 84494 (rat)

Important Comments: This antibody is expected to recognise all six reported isoforms (NP_057263.1; NP_003297.1; NP_001129427.1; NP_001129429.1; NP_001129428.1; NP_001129430.1).

Immunogen

Peptide with sequence C-KHAKEEDSSIDYD, from the internal region (near C Terminus) of the protein sequence according to NP_057263.1; NP_003297.1; NP_001129427.1; NP_001129429.1; NP_001129428.1; NP_001129430.1.

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 1:32000.

Western blot: Approx. 110kDa band observed in Rat Brain lysates (calculated MW of 112kDa according to Human NP_057263.1 and to Rat NP_536321.1). Recommended concentration: 0.3-1µg/ml. Primary incubation was 1 hour.

IHC: Paraffin embedded Human Placenta and Kidney. Recommended concentration: 4.75µg/ml.

Species Reactivity

Tested: Human, Rat

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

Specific References

This antibody has been successfully used in Western blot on Mouse:

Tauseef M, Farazuddin M, Sukriti S, Rajput C, Meyer JO, Ramasamy SK, Mehta D. Transient receptor potential channel 1 maintains adherens junction plasticity by suppressing sphingosine kinase 1 expression to induce endothelial hyperpermeability.

FASEB J. 2016 Jan;30(1):102-10

PMID: 26316271

This antibody has been successfully used in Western blot on Mouse:

Auditi DebRoy, Stephen M. Vogel, Dheeraj Soni, Premanand C. Sundivakkam, Asrar B. Malik, and Chinnaswamy Tiruppathi.

Cooperative signaling via transcription factors NF- κ B and AP1/c-Fos mediates endothelial cell STIM1 expression and hyperpermeability in response to endotoxin.
J Biol Chem. 2014 Aug 29;289(35):24188-201
PMID: 25016017

EB08796 (0.3µg/ml) staining of Rat Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB08796 (4.75µg/ml) staining of paraffin embedded Human Placenta. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

EB08796 (4.75µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.