

## UK Office

### Everest Biotech Ltd

Cherwell Innovation Centre  
77 Heyford Park  
Upper Heyford  
Oxfordshire  
OX25 5HD  
UK

Enquiries:

[info@everestbiotech.com](mailto:info@everestbiotech.com)

Sales:

[sales@everestbiotech.com](mailto:sales@everestbiotech.com)

Tech support:

[support@everestbiotech.com](mailto:support@everestbiotech.com)

Tel: +44 (0)1869 238326

[www.everestbiotech.com](http://www.everestbiotech.com)

**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. This antibody has been successfully used in Western blot on Mouse, PMID: 26316271 and PMID: 25016017. This antibody has been successfully used in Western blot on Human, PMID: 25016017.

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

### Species Reactivity

**Tested:** Human, Mouse, 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

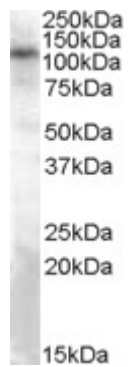
**This antibody has been successfully used in Western blot on Human and Mouse:**

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

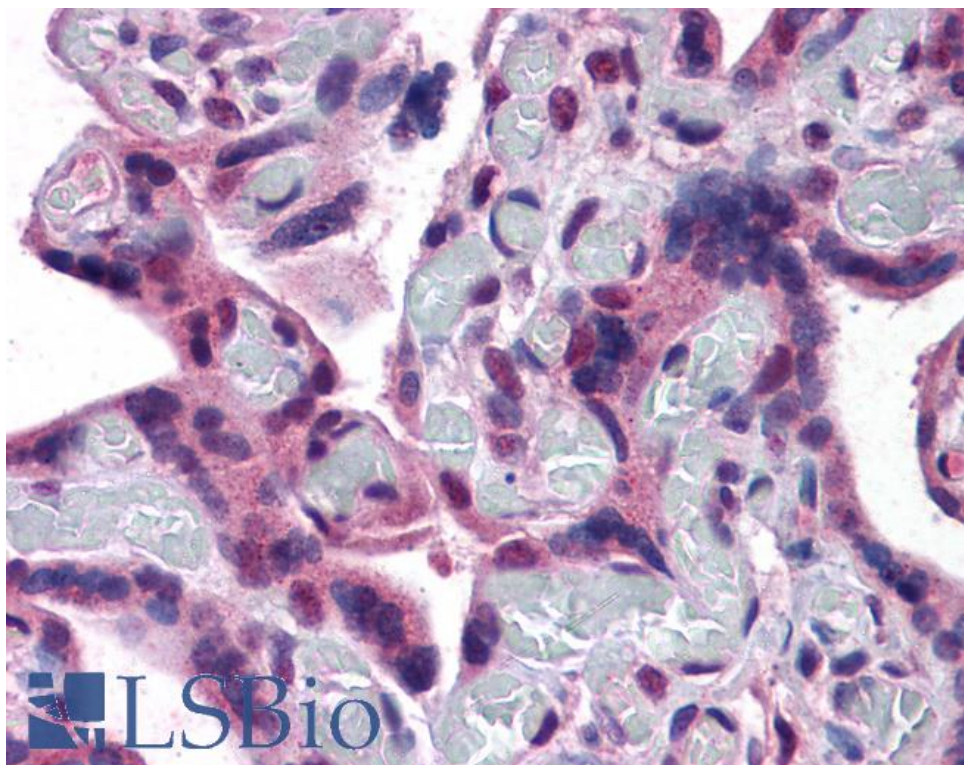
Cooperative signaling via transcription factors NF- $\kappa$ B and AP1/c-Fos mediates endothelial cell STIM1 expression and hyperpermeability in response to endotoxin.

J Biol Chem. 2014 Aug 29;289(35):24188-201

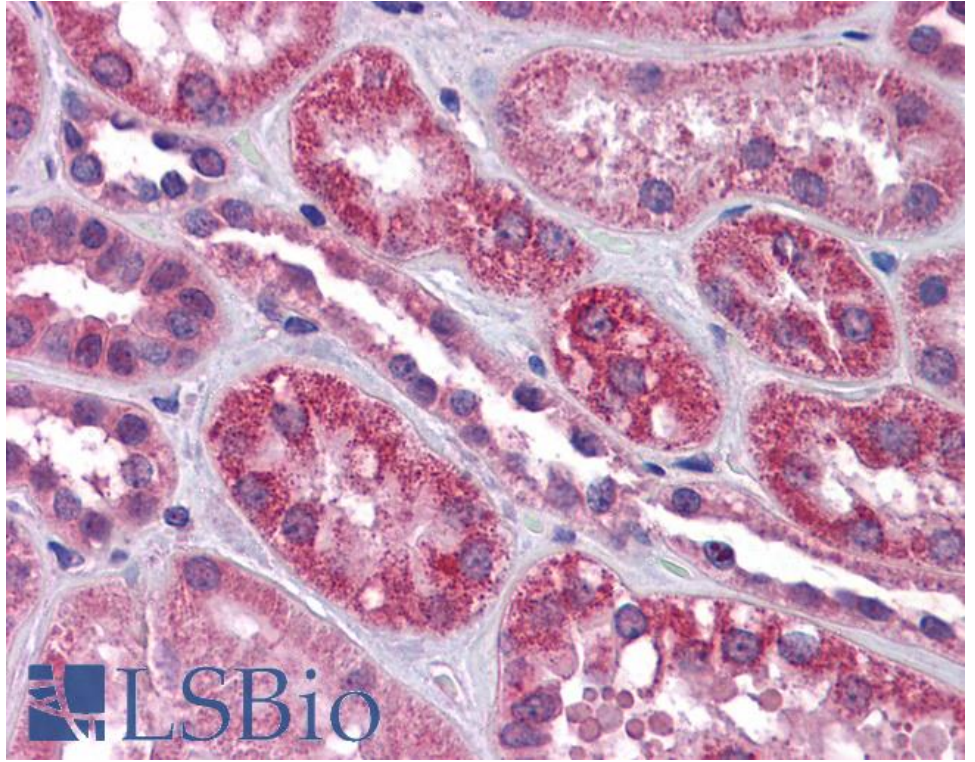
PMID: 25016017



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



EB08796 (4.75 $\mu$ g/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.