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Research Use Only. Not for diagnostic or therapeutic use.

EB08515 - Goat Anti-TRPV5 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: TRPV5, transient receptor potential cation channel, subfamily V, member 5, CAT2, ECAC1, OTRPC3, calcium transporter 2, epithelial calcium channel 1,

osm-9-like TRP channel 3
Official Symbol: TRPV5

Accession Number(s): NP_062815.2

Human GeneID(s): 56302

Non-Human GenelD(s): 194352 (mouse), 116469 (rat)

Immunogen

Peptide with sequence C-SHRGWEILRQNT, from the internal region of the protein sequence according to NP_062815.2.

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 1:16000.

Western blot: Approx 85kDa band observed in Human Pancreas lysates (calculated MW of 82.6kDa according to NP_062815.2). Recommended concentration: 1-3μg/ml. Primary incubation was 1 hour. This antibody has been successfully used in WB on Human: Kennedy BG et al. (2010) PMID: 20405023.

Immunocytochemsitry/Immunofluorescence: This antibody has been successfully used in ICC/IF on Human: Kennedy BG et al. (2010) PMID: 20405023. This antibody has been successfully used in ICC on Mouse: Mariana Labarca et al. (2015) PMID: 25810438. This antibody has been successfully used in ICC on Human: Tomilin VN et al. (2016) PMID: 26096460.

Species Reactivity

Tested: Human

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

Specific References

This antibody has been successfully used in IF in Human:

Tomilin VN, Cherezova AL, Negulyaev YA, Semenova SB.

TRPV5/V6 Channels Mediate Ca(2+) Influx in Jurkat T Cells Under the Control of Extracellular pH. J Cell Biochem. 2016 Jan;117(1):197-206

PMID: 26096460

This antibody has been successfully used in ICC on Mouse:

Mariana Labarca, Jonathan M. Nizar, Elisabeth M. Walczak, Wuxing Dong, Alan C. Pao and Vivek Bhalla

Harvest and primary culture of the murine aldosterone-sensitive distal nephron Am J Physiol Renal Physiol. 2015 Jun 1; 308(11)

PMID: 25810438

This antibody has been successfully used in WB and ICC in Human:

Kennedy BG, Torabi AJ, Kurzawa R, Echtenkamp SF, Mangini NJ.

Expression of transient receptor potential vanilloid channels TRPV5 and TRPV6 in retinal pigment epithelium.

Mol Vis. 2010 Apr 14;16:665-75.

PMID: 20405023

250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa

EB08515 (1 μ g/ml) staining of Human Pancreas lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.