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

EB07221 - Goat Anti-Hamartin / TSC1 (isoform 1) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: TSC1, hamartin, tuberous sclerosis 1, HGNC:12362, KIAA0243, LAM, MGC86987, TSC, tuberous sclerosis 1 protein, tumor suppressor

Official Symbol: TSC1

Accession Number(s): NP_000359.1

Human GeneID(s): [7248](#)

Non-Human GeneID(s): 64930 (mouse)

Important Comments: This antibody is expected to recognise isoform 1 (NP_000359.1) only.

Immunogen

Peptide with sequence C-QLHIMDYNETHHEH, from the C Terminus of the protein sequence according to NP_000359.1.

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: Approx 150kDa band observed in Human Brain lysates (calculated MW of 130kDa according to NP_000359.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Milolozza et al Hum Mol Genet. 2000 Jul 22;9(12):1721-7; PMID: 10915759). In transfected HEK293 transiently expressing Human TSC1 a band of approx. 120kDa is observed. This band is not observed in the non-transfected HEK293. Recommended concentration: 0.1-0.3µg/ml..

IHC: In paraffin embedded Human Uterus shows membranous staining around non-basal nuclei and at the lumen of the endometrial gland. Recommended concentration, 3-6µg/ml.

Species Reactivity

Tested: Human

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

EB07221 (0.1µg/ml) staining of Human Brain lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

HEK293 overexpressing Human TSC1 (RC213332) and probed with EB07221 (mock transfection in first lane), tested by Origene.

EB07221 (3.8µg/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.