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Research Use Only. Not for diagnostic or therapeutic use.

EB10358 - Goat Anti-IGF1 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: IGF1A, IGFI, insulin-like growth factor 1, insulin-like growth factor 1

(somatomedin C), OTTHUMP00000195084, IGF1

Official Symbol: IGF1

Accession Number(s): NP_001104753.1; NP_001104754.1; NP_001104755.1;

NP_000609.1

Human GeneID(s): 3479

Non-Human GenelD(s): 16000 (mouse), 24482 (rat)

Important Comments: This antibody is expected to recognize all reported isoforms

(NP_001104753.1; NP_001104754.1; NP_001104755.1; NP_000609.1).

Immunogen

Peptide with sequence C-RSVRAQRHTD, from the internal region of the protein sequence according to NP_001104753.1; NP_001104754.1; NP_001104755.1; NP_000609.1.

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 15kDa band observed in Human Uterus lysates (calculated MW of 15.2kDa according to NP_001104754.1). Recommended concentration 0.5-2µg/ml. Primary incubation 1 hour at room temperature. **Negative Control:** HepG2 cell lysate. Preliminary testing was unsuccessful on Mouse and Rat for this particular batch. **IHC:** Paraffin embedded Human Spleen. Recommended concentration: 3.75µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of HEK293 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A549 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human

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

Specific Reference

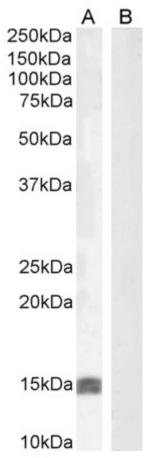
This antibody has been successfully used in Western blot on Rat:

Zhang B, Zhang Y, Deng F, Fang S

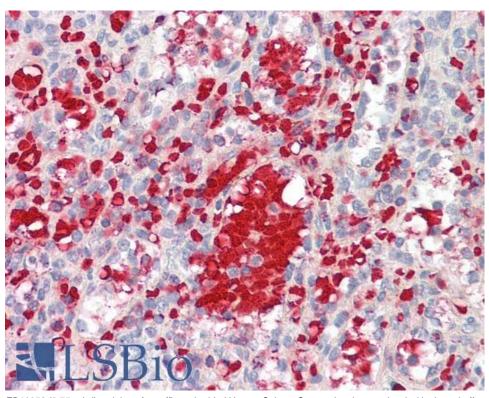
Ligustrazine prevents basilar artery remodeling in two-kidney-two-clip renovascular hypertension rats via suppressing PI3K/Akt signaling

Microvascular Research, Volume 128, March 2020, 103938

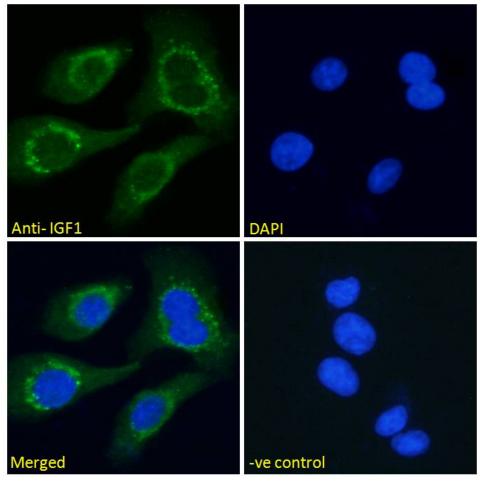
PMID: 31682800



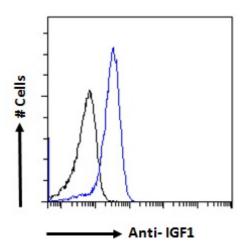
EB10358 (0.5μg/ml) staining of Human Uterus (A) and negative control HepG2 (B) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence



EB10358 (3.75 μ g/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB10358 Immunofluorescence analysis of paraformaldehyde fixed HEK293 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10358 Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.