

## UK Office

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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, IGF1, 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 GeneID(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 (3.75µg/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.