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

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

## EB06450 - Goat Anti-Smooth muscle alpha-actin Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** smooth muscle alpha-actin, growth-inhibiting gene 4, alpha-cardiac actin, alpha 2 actin, ACTSA, AAT6, ACTSA, ACTA2, OTTHUMP00000020042, actin, alpha 2, smooth muscle, aorta

**Official Symbol:** ACTA2

**Accession Number(s):** NP\_001604.1; NP\_001135417.1

**Human GeneID(s):** [59](#)

**Important Comments:** Variants NP\_001604.1 and NP\_001135417.1 encode the same protein.

### Immunogen

Peptide with sequence EEEDSTALVC, from the N Terminus of the protein sequence according to NP\_001604.1; NP\_001135417.1.

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 1:1000.

**Western blot:** Approx 45kDa band observed in Human Duodenum lysates (calculated MW of 42.0kDa according to NP\_001604.1). Recommended concentration: 0.01-0.03µg/ml.

**IHC:** Successful IHC data obtained from a previous batch

### Species Reactivity

**Tested:** Human, Mouse, Rat

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

### Specific Reference

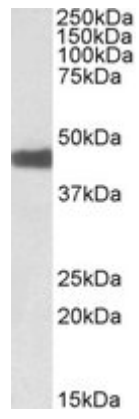
This antibody has been successfully used in the following papers:

McIntire RH, Sifers T, Platt JS, Ganacias KG, Langat DK, Hunt JS.

Novel HLA-G-binding leukocyte immunoglobulin-like receptor (LILR) expression patterns in human placentas and umbilical cords.

Placenta. 2008 Jul;29(7):631-8.

**PMID:** 18538388



EB06450 staining (0.01 $\mu$ g/ml) of Human Duodenum lysate (RIPA buffer, 35 $\mu$ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.