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

Size: 100µg specific antibody in 200µl



## **Target Protein**

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

4, smooth muscle alpha-actin **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 1:8000.

**Western blot:** Approx 42kDa band observed in Human Duodenum lysates, Rat Heart lysates, and in lysates of cell lines HeLa and NIH3T3 (calculated MW of 42kDa according to Human NP\_001604, Mouse NP\_031418.1 and Rat NP\_112266.1) . Recommended concentration: 0.1-0.5µg/ml. Primary incubation 1 hour at room temperature.

IHC: S4C4P26

#### **Species Reactivity**

Tested: Human, Mouse, Rat

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

## Specific References

## This antibody (previous batch) has been successfully used in IHC on Mouse:

Mathias Hochgerner, Eva M Sturm, Diana Schnoegl, Grazyna Kwapiszewska, Horst Olschewski, Leigh M Marsh

Low oxygen levels decrease adaptive immune responses and ameliorate experimental asthma in mice

Allergy. 2021 Jul 26. doi: 10.1111/all.15020

PMID: 34309864

## This antibody (previous batch) has been successfully used in ICC on Human:

Nagy BM, Nagaraj C, Meinitzer A, Sharma N, Papp R, Foris V, Ghanim B, Kwapiszewska G, Kovacs G, Klepetko W, Pieber TR, Mangge H, Olschewski H, Olschewski A Importance of kynurenine in pulmonary hypertension

Am J Physiol Lung Cell Mol Physiol. 2017 Nov 1;313(5):L741-L751.

PMID: 28705908

#### This antibody (previous batch) has been successfully used in IHC on Mouse:

João Paulo M. C. M. Cunha, Gunter Leuckx, Peter Sterkendries, Hannelie Korf, Gabriela Bomfim-Ferreira, Lutgart Overbergh, Bart Vaes, Harry Heimberg, Conny Gysemans, Chantal Mathieu

Human multipotent adult progenitor cells enhance islet function and revascularisation when co-trans a composite pellet in a mouse model of diabetes.

Diabetologia. 2016 Oct 4.

PMID: 27704164

#### This antibody (previous batch) has been successfully used in WB and IF on Mouse:

Chaofei Li, Tianyi Yu, Yan Liu, Xuelian Chen, and Xiong Zhang.

Topical Application of Insulin Accelerates Vessel Maturation of Wounds by Regulating Angiopoietin-1 in Diabetic Mice.

Int J Low Extrem Wounds. 2015 Dec;14(4):353-64.

PMID: 26349856

# This antibody (previous batch) has been successfully used in IHC on Human:

Zabini D, Crnkovic S, Xu H, Tscherner M, Ghanim B, Klepetko W, Olschewski A, Kwapiszewska G, Marsh LM.

High-mobility group box-1 induces vascular remodelling processes via c-Jun activation.

J Cell Mol Med. 2015 May;19(5):1151-61

PMID: 25726846

#### This antibody (previous batch) has been successfully used in IHC on Human:

Diana Zabini, Akos Heinemann, Vasile Foris, Chandran Nagaraj, Patrick Nierlich, Zolta´n Ba´lint, Grazyna Kwapiszewska, Irene M. Lang, Walter Klepetko, Horst Olschewski and Andrea Olschewski.

Comprehensive analysis of inflammatory markers in chronic thromboembolic pulmonary hypertension patients.

Eur Respir J. 2014 Oct;44(4):951-62.

PMID: 25034560

#### This antibody (previous batch) has been successfully used in IHC on Mouse:

Park SH, Chen WC, Hoffman C, Marsh LM, West J, Grunig G.

Modification of hemodynamic and immune responses to exposure with a weak antigen by the expression of a hypomorphic BMPR2 gene.

PLoS One. 2013;8(1):e55180.

PMID: 23383100

## This antibody (previous batch) has been successfully used in IHC on Mouse:

Trokovic N, Pöllänen R, Porola P, Stegaev V, Hetzel U, Tivesten Å, Engdahl C, Carlsten H, Forsblad-d'Elia H, Fagman JB, Lagerquist M, Konttinen YT.

Exosomal secretion of death bullets: a new way of apoptotic escape?

Am J Physiol Endocrinol Metab. 2012 Oct 15;303(8):E1015-24.

PMID: 22912365

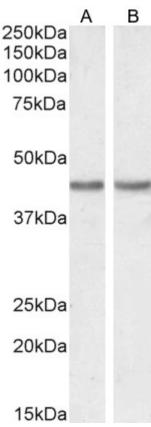
## This antibody (previous batch) has been successfully used in IF on Human:

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

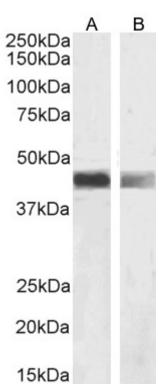
Novel HLA-G-binding leukocyte immunoglobulin-like receptor (LILR) expression patterns in human placentas and umbilical cords.

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

PMID: 18538388



EB06450 (0.3µg/ml) staining of HeLa (A) and (0.5g/ml) NIH3T3 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06450 (0.1μg/ml) staining of Human Duodenum (A) and (0.5ug/ml) Rat Heart (B) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.