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

EB06288 - Goat Anti-SIRT4 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: SIRT4, SIR2L4, sirtuin (silent mating type information regulation 2 homolog) 4 (*S. cerevisiae*), sirtuin silent mating type information regulation 2 homolog 4 (*S. cerevisiae*), MGC130046, MGC130047, MGC57437, SIR2L4, sirtuin 4, sir2-like 4, sirtuin 4, sirtuin type 4

Official Symbol: SIRT4

Accession Number(s): NP_036372.1

Human GeneID(s): [23409](#)

Non-Human GeneID(s): 75387 (mouse)

Immunogen

Peptide with sequence SRCGELLPLIDPC, from the C Terminus of the protein sequence according to NP_036372.1.

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. 38kDa band observed in Human Kidney lysates (calculated MW of 35.2kDa according to NP_036372.1). Recommended concentration: 1-3µg/ml. Primary incubation was 1 hour.

IHC: In paraffin embedded Skeletal Muscle shows spotty staining of striated fibres in longitudinal section. Recommended concentration: 2-3µg/ml.

Species Reactivity

Tested: Human

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

Specific References

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

Thaís Furtado Camargo, Ariane Maria Zanesco, Kayo Augusto Salandin Pacher, Thiago Antonio Moretti Andrade, Armino Antonio Alves, Maria Esméria Corezola do Amaral
Physiological profile regulation during weight gain and loss by ovariectomized 2 females: importance of SIRT1 and SIRT4

Am J Physiol Endocrinol Metab. 2020 Aug 31. doi: 10.1152/ajpendo.00465.2019
PMID: 32865007

This antibody (previous batch) has been successfully used in Western blot on Dog:

Marfè G, Tafani M, Fiorito F, Pagnini U, Iovane G, De Martino L.

Involvement of FOXO transcription factors, TRAIL-FasL/Fas, and sirtuin proteins family in canine coronavirus type II-induced apoptosis.
PLoS One. 2011;6(11).

PMID: 22087287

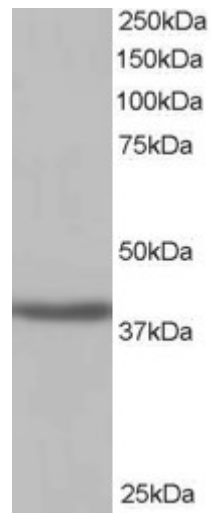
This antibody has been successfully used on Rat in the following paper:

do Amaral ME, Ueno M, Oliveira CA, Borsonello NC, Vanzela EC, Ribeiro RA, Alves PL, Barbosa HC, Carneiro EM, Boschero AC.

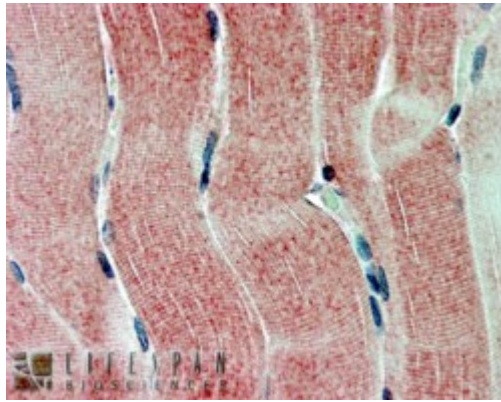
Reduced expression of SIRT1 is associated with diminished glucose-induced insulin secretion in islets from calorie-restricted rats.

J Nutr Biochem. 2011 Jun;22(6):554-9.

PMID: 20801633



EB06288 (1 μ g/ml) staining of Human Kidney lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB06288 (2.5 μ g/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.