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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 GenelD(s): 23409

Non-Human GenelD(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 1:16000.

Western blot: Approx. 37kDa band observed in lysates of cell lines U937 and U251, and approx. 38kDa in lysates of cell lines K562, MCF7 and U2OS and in preliminary testing of Rat Kidney lysate (calculated MW of 35.2kDa according to NP_036372.1). Recommended concentration: 0.75-3µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Kidney, Placenta and Brain (Cortex). Recommended

concentration: 7µg/ml.

Species Reactivity

Tested: Human

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

Specific References

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

Thaís Furtado Camargo, Ariane Maria Zanesco, Kayo Augusto Salandin Pacher, Thiago Antonio Moretti Andrade, Armindo 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

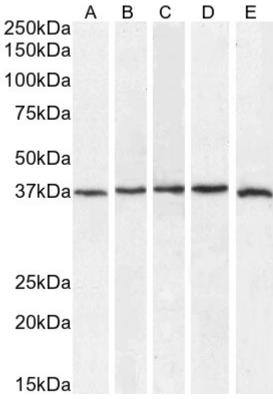
This antibody (previous batch) has been successfully used on Rat in the following paper:

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

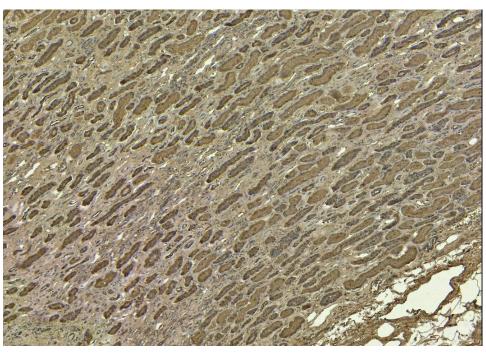
Reduced expression of SIRT1 is associated with diminished glucose-induced insulin secretion in islets from calorie-restricted rats.

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

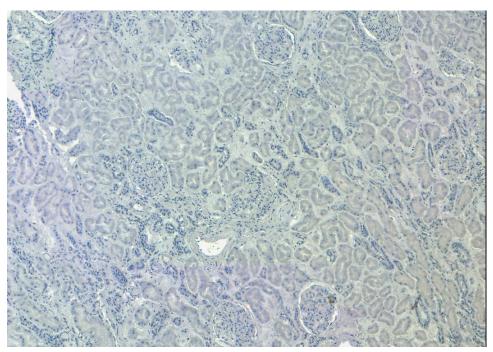
PMID: 20801633



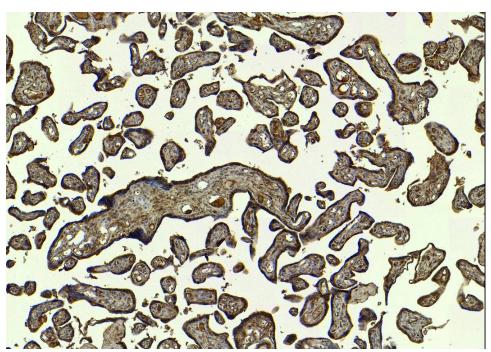
EB06288 (0.75ug/ml) staining of U937 (A), (2ug/ml) K562 (B) and (3ug/ml) U2OS (C), MCF7 (D), and U251 (E) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



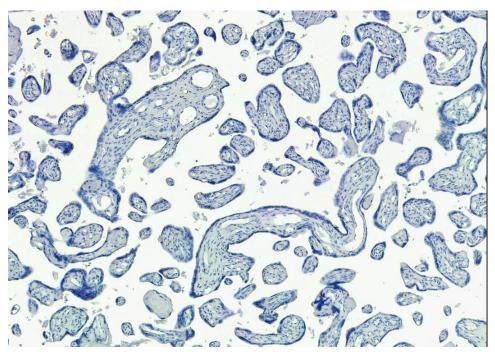
EB06288 ($7\mu g/ml$) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



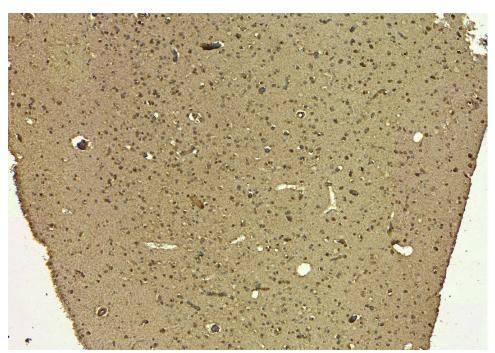
 ${\tt EB06288\ Negative\ Control\ showing\ staining\ of\ paraffin\ embedded\ Human\ Kidney,\ with\ no\ primary\ antibody.}$



EB06288 (7μg/ml) staining of paraffin embedded Human Placenta. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



 ${\tt EB06288\ Negative\ Control\ showing\ staining\ of\ paraffin\ embedded\ Human\ Placenta,\ with\ no\ primary\ antibody.}$



 $EB06288~(7\mu g/ml)~staining~of~paraffin~embedded~Human~Cortex.~Heat~induced~antigen~retrieval~with~citrate~buffer~Ph~6,~HRP-staining.$



 ${\tt EB06288\ Negative\ Control\ showing\ staining\ of\ paraffin\ embedded\ Human\ Cortex,\ with\ no\ primary\ antibody.}$