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

EB06377-T - Goat Anti-GAPDH (C Terminus) Loading Control Antibody - Trial

Size: 20µg specific antibody in 40µl



Target Protein

Principal Names: GAPDH, glyceraldehyde-3-phosphate dehydrogenase, HGNC:4141, G3PD, GAPD, MGC88685, aging-associated gene 9 protein, glyceraldehyde 3-phosphate dehydrogenase, epididymis secretory sperm binding protein Li 162eP, HEL-S-162eP, peptidyl-cysteine S-nitrosylase GAPDH

Official Symbol: GAPDH

Accession Number(s): NP_002037.2

Human GeneID(s): [2597](#)

Important Comments: GAPDH is constitutively expressed in almost all tissues at high levels. It is therefore a useful marker when a loading/positive control is required in western blotting.

Immunogen

Peptide with sequence C-HQVVSSDFNSDT, from the C Terminus of the protein sequence according to NP_002037.2.

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 1:4000.

Western blot: Approx 35kDa band observed in lysates of cell line HEK293 and LNCaP, and approx. 37kDa in lysates of cell lines A549 and HeLa, and in Human Liver lysates (calculated MW of 36.1kDa according to Human NP_002037.2). Recommended concentration: 0.01-0.1µg/ml. Primary incubation 1 hour at room temperature.

Positive Control: A batch specific positive control lysate is available for this product. Please contact Sales@everestbiotech.com for availability.

IHC: Paraffin embedded Human Kidney and Lung. Recommended concentration: 4-6µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm and plasma membranes of HeLa cells. Recommended concentration: 10µg/ml.

Species Reactivity

Tested: Human

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

Specific References

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

George J, Jacobs HT

Germline knockdown of spargel (PGC-1) produces embryonic lethality in Drosophila.

Mitochondrion. 2019 Aug 29;49:189-199

PMID: 31473309

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

Jack George & Howard T. Jacobs

Minimal effects of spargel (PGC-1 α) overexpression in a Drosophila mitochondrial disease model

bioRxiv 529545; doi: <https://doi.org/10.1101/529545> (2019)

PMID: 31292108

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

Ananda Ayyappan Jaguva Vasudevan, Ulrike Kreimer, Wolfgang A Schulz, Aikaterini Krikoni, Gerald G Schumann, Dieter Häussinger, Carsten Münk, Wolfgang Goering
APOBEC3B Activity Is Prevalent in Urothelial Carcinoma Cells and Only Slightly Affected by LINE-1 Expression

Front Microbiol. 2018 Sep 4;9:2088.

PMID: 30233553

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

Cagri Yalgin, Bohdana Rovenko, Ana Andjelković, Margot Neefjes, Burak Oymak, Eric Dufour, Ville Hietakangas & Howard T. Jacobs

Effects on dopaminergic neurons are secondary in COX-deficient locomotor dysfunction in Drosophila

<https://ssrn.com/abstract=3600553> (3rd June 2020)

PMID: 0

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

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen

A high-throughput pipeline for validation of antibodies

Nat Methods. 2018 Nov;15(11):909-912

PMID: 30377371

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

Osei Kuffour E, Schott K, Jaguva Vasudevan AA, Holler J, Schulz WA, Lang PA, Lang KS, Kim B, Häussinger D, König R, Münk C

USP18 (UBP43) Abrogates p21-Mediated Inhibition of HIV-1

J Virol. 2018 Sep 26;92(20). pii: e00592-18

PMID: 30068654

This antibody (previous batch) has been successfully used in Western blot on Human and Mouse:

Jaguva Vasudevan AA, Bähr A, Grothmann R, Singer A, Häussinger D, Zimmermann A, Münk C.

MXB inhibits murine cytomegalovirus

Virology. 2018 Sep;522:158-167.

PMID: 30032029

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

Hain A, Krämer M, Linka RM, Nakhaei-Rad S, Ahmadian MR, Häussinger D, Borkhardt A, Münk C.

IL-2 Inducible Kinase ITK is Critical for HIV 1 Infection of Jurkat T-cells.

Sci Rep. 2018 Feb 16;8(1):3217.

PMID: 29453458

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

Scialo F, Sriram A, Stefanatos R, Sanz A.

Practical Recommendations for the Use of

the GeneSwitch Gal4 System to Knock-Down Genes in *Drosophila melanogaster*.

PLoS One. 2016 Aug 29;11(8)

PMID: 27570965

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

Happold C, Roth P, Silginer M, Florea AM, Lamszus K, Frei K, Deenen R, Reifenberger G, Weller M.

Interferon- β induces loss of spherogenicity and overcomes therapy resistance of glioblastoma stem cells.

Mol Cancer Ther. 2014 Apr;13(4):948-61.

PMID: 24526161

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

Happold C, Roth P, Wick W, Schmidt N, Florea AM, Silginer M, Reifenberger G, Weller M.

Distinct molecular mechanisms of acquired resistance to temozolomide in glioblastoma cells.

J Neurochem. 2012 May 7. doi: 10.1111/j.1471-4159.2012.07781.x.

PMID: 22564186

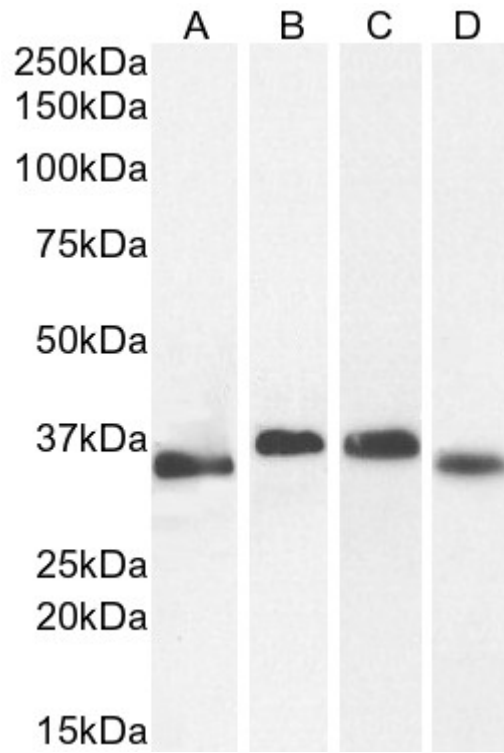
This antibody (previous batch) has been successfully used in Western blot on Rat:

Kiepe D, Van Der Pas A, Ciarmatori S, Ständker L, Schütt B, Hoeflich A, Hügel U, Oh J, Tönshoff B.

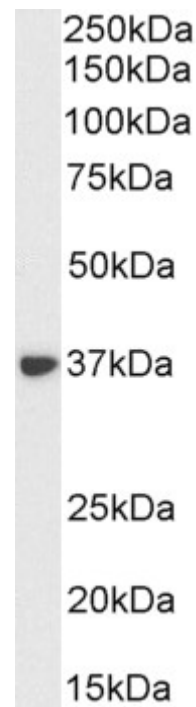
Defined carboxy-terminal fragments of insulin-like growth factor (IGF) binding protein 2 exert similar mitogenic activity on cultured rat growth plate chondrocytes as IGF-I.

Endocrinology. 2008 Oct;149(10):4901-11.

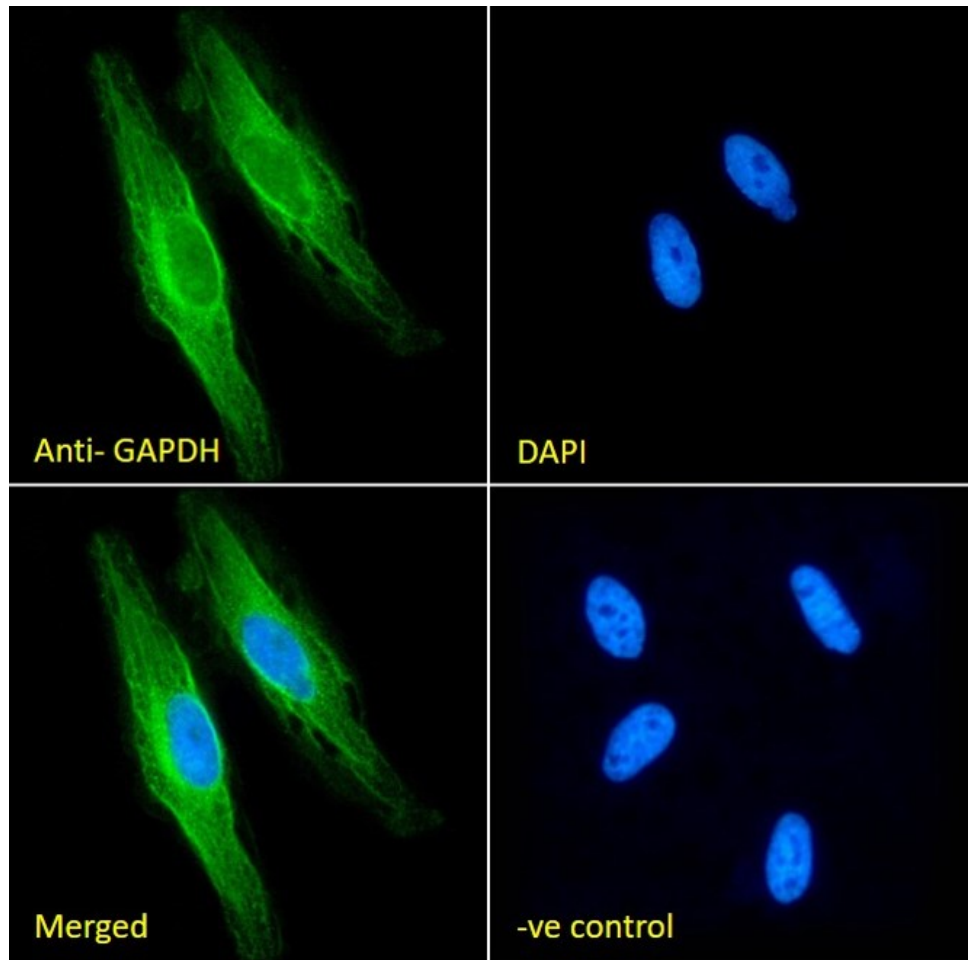
PMID: 18556354



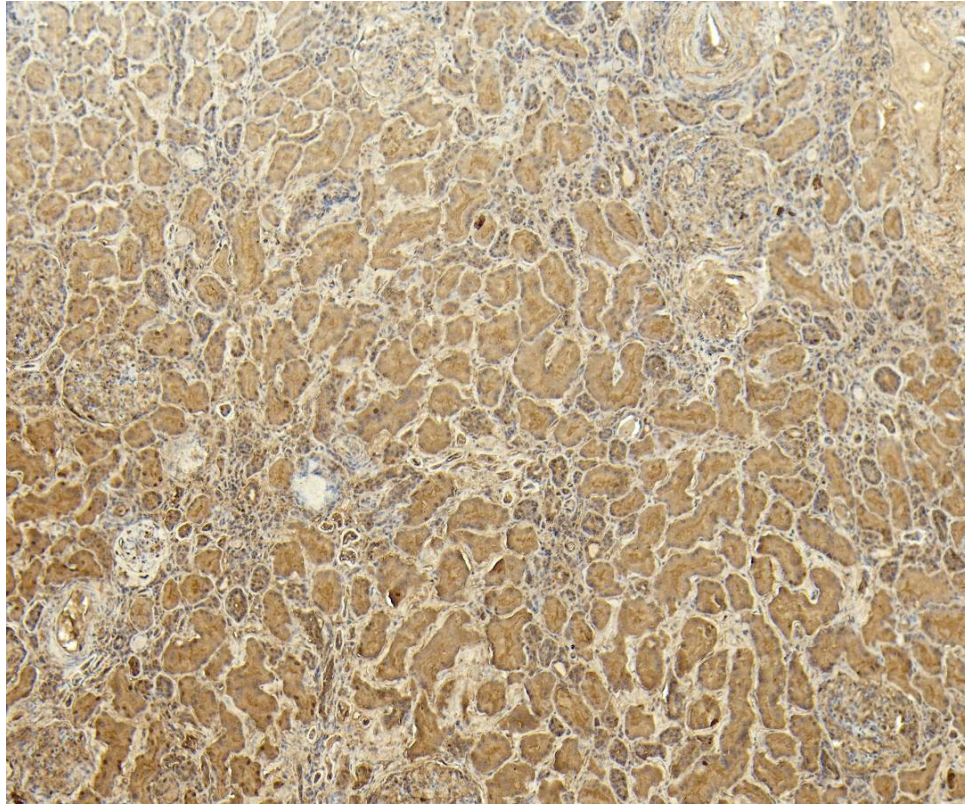
EB06377 (0.1 μ g/ml) staining of HEK293 (A), HeLa (B) and A549 (C) and (0.01 μ g/ml) LNCaP (D) cell lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



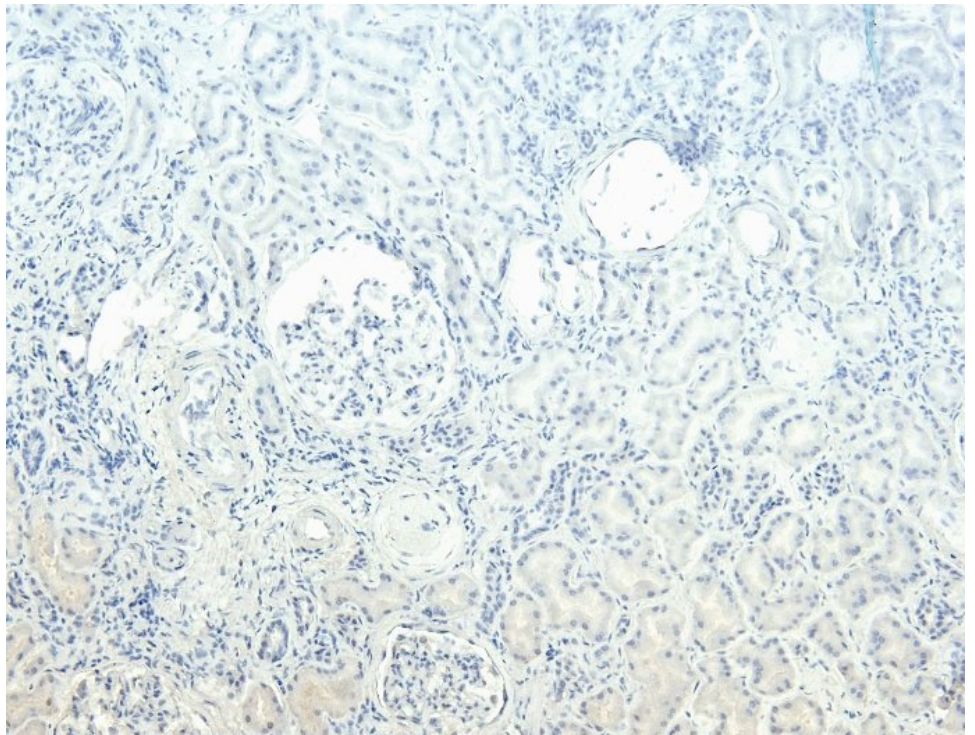
EB06377 (0.1 μ g/ml) staining of Human Liver lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



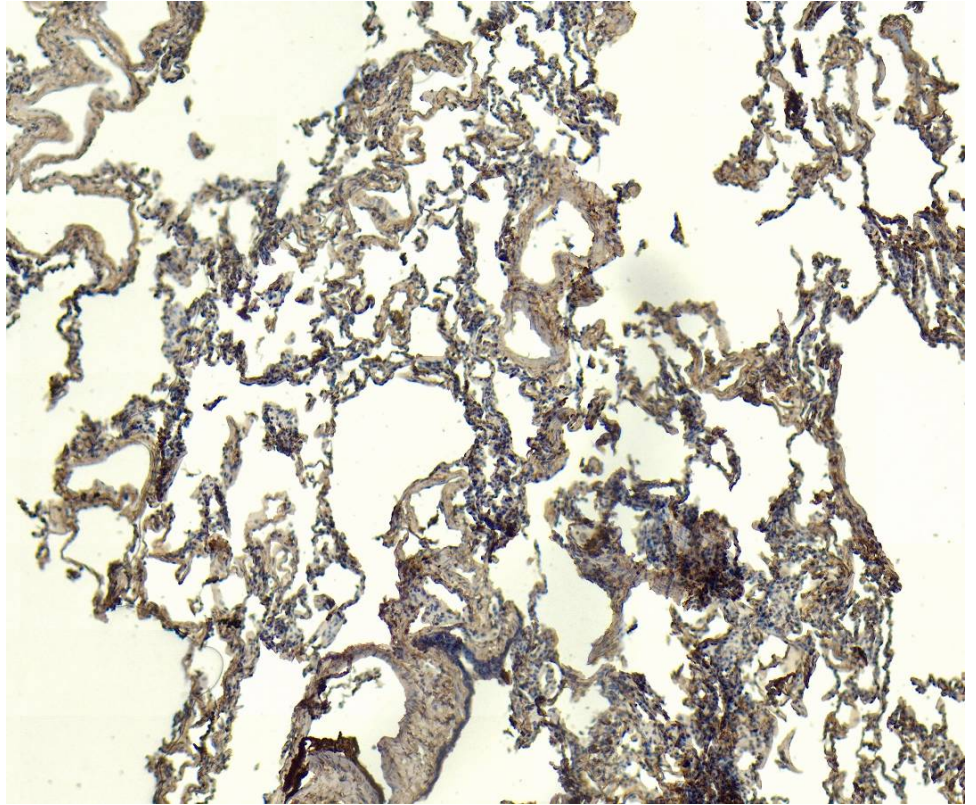
EB06377 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



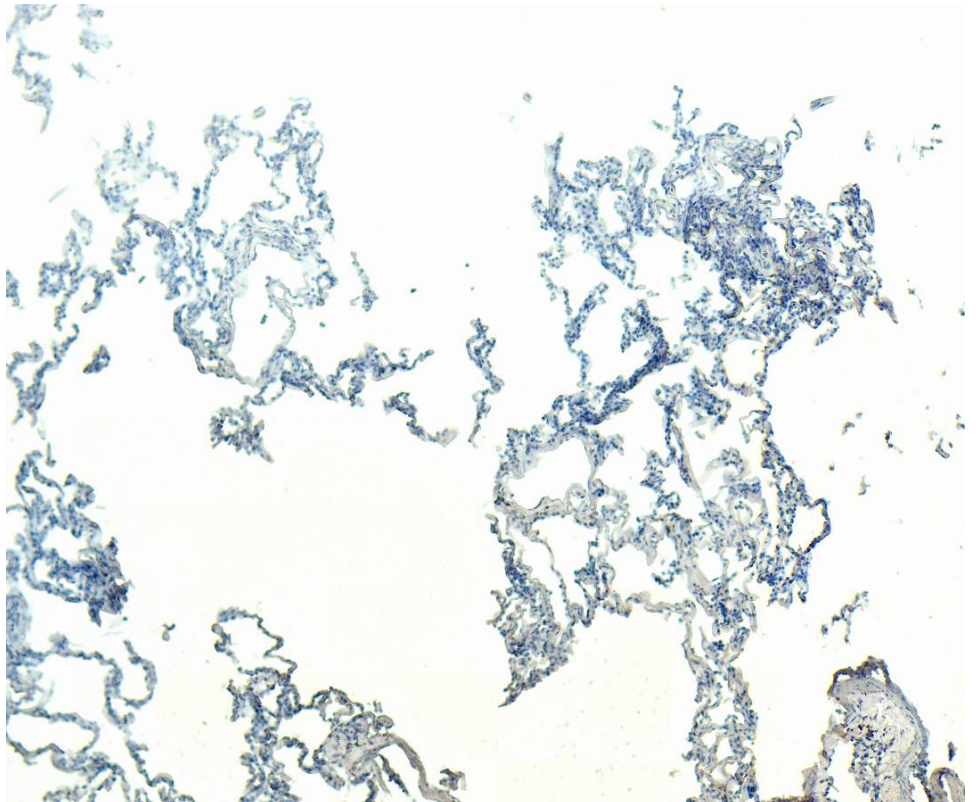
EB06377 (4 μ g/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB06377 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



EB06377 (5 μ g/ml) staining of paraffin embedded Human Lung. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB06377 Negative Control showing staining of paraffin embedded Human Lung, with no primary antibody.