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Datasheet for ABIN129627

anti-GLI2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	GLI2
Binding Specificity:	Internal Region
Reactivity:	Human, Chimpanzee
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLI2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 46-60 of human Gli-2 (isoform a). Immunogen Type: Peptide
Isotype:	IgG
Specificity:	This affinity-purified antibody is directed against human Gli-2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with Gli-2 from human and chimpanzee based on the immunizing sequence.
Characteristics:	Gli-2 (also known as Zinc Finger Protein Gli-2, GLI-Kruppel family member GLI-2 or Tax helper protein) belongs to the C2H2-type zinc finger protein subclass of the Gli family. Members of this

Product Details

subclass are characterized as transcription factors that bind DNA through zinc finger motifs. These motifs contain conserved H-C links. Gli family zinc finger proteins are mediators of Sonic hedgehog (Shh) signaling and they are implicated as potent oncogenes in the embryonal carcinoma cell. The protein encoded by this gene localizes to the cytoplasm and activates patched Drosophila.

Sterility: Sterile filtered

Target Details

Target: GLI2

Alternative Name: Gli-2 ([GLI2 Products](#))

Background: Gli-2 (also known as Zinc Finger Protein Gli-2, GLI-Kruppel family member GLI-2 or Tax helper protein) belongs to the C2H2-type zinc finger protein subclass of the Gli family. Members of this subclass are characterized as transcription factors that bind DNA through zinc finger motifs. These motifs contain conserved H-C links. Gli family zinc finger proteins are mediators of Sonic hedgehog (Shh) signaling and they are implicated as potent oncogenes in the embryonal carcinoma cell. The protein encoded by this gene localizes to the cytoplasm and activates patched Drosophila.

Synonyms: Gli-2, Zinc Finger Protein Gli-2, GLI-Kruppel family member GLI-2 or Tax helper protein

Gene ID: 2736

NCBI Accession: [NP_005261](#)

UniProt: [P10070](#)

Pathways: [Hedgehog Signaling, Dopaminergic Neurogenesis](#)

Application Details

Application Notes: This antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. See figure legend for expectations by western blot. Multiple splice variants have been reported for this protein a, b, g and d (133.3, 131.6, 88.1 and 86.4 kDa respectively). Detection of Gli-2 by western blot may be enhanced if nuclear extracts are used instead of whole cell lysates as the expression/abundance of Gli-2 is likely to be low. Furthermore, Gli-2 expression is likely to be developmentally regulated and induced, making it difficult to detect in whole tissue

Application Details

homogenates.

Comment: Gene Name: GLI2

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.

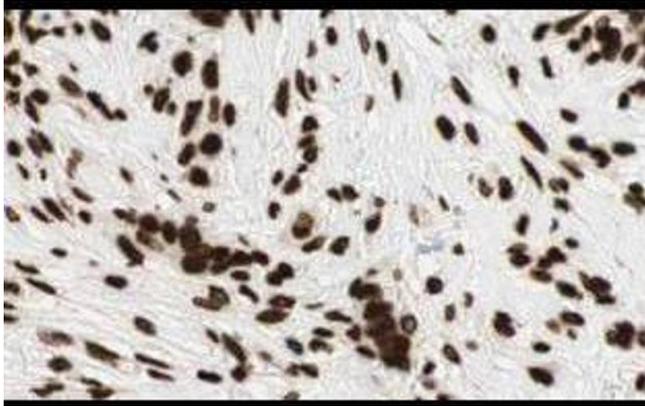
Expiry Date: 12 months

Publications

Product cited in: Welc, Flores, Wehling-Henricks, Ramos, Wang, Bertoni, Tidball: "Targeting a therapeutic LIF transgene to muscle via the immune system ameliorates muscular dystrophy." in: **Nature communications**, Vol. 10, Issue 1, pp. 2788, (2019) ([PubMed](#)).

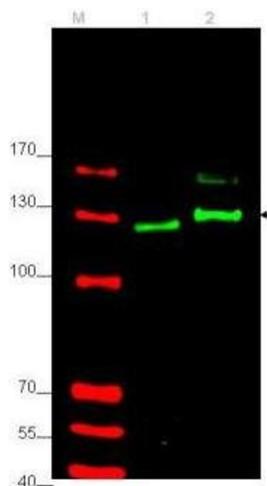
Finno, Gianino, Perumbakkam, Williams, Bordbari, Gardner, Burns, Peng, Durward-Akhurst, Valberg: "A missense mutation in MYH1 is associated with susceptibility to immune-mediated myositis in Quarter Horses." in: **Skeletal muscle**, Vol. 8, Issue 1, pp. 7, (2018) ([PubMed](#)).

Huang, Ge, Izzi, Greenspan: "α3 Chains of type V collagen regulate breast tumour growth via glypican-1." in: **Nature communications**, Vol. 8, pp. 14351, (2018) ([PubMed](#)).



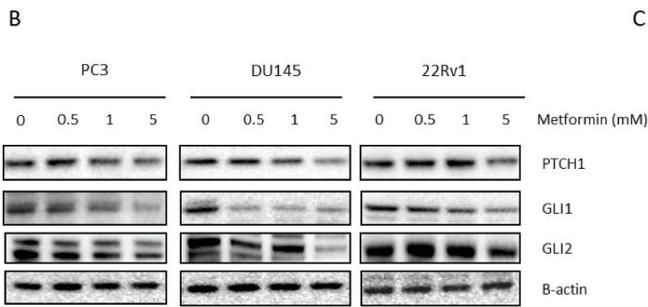
Immunohistochemistry

Image 1. Affinity Purified anti-Gli2 antibody shows strong cytoplasmic and membranous staining of tumor cells in human breast tissue. Tissue was formalin-fixed and paraffin embedded. Brown color indicates presence of protein, blue color shows cell nuclei. Personal Communication, Kenneth Wester, www.proteinatlas.org, Uppsala, Sweden.



Western Blotting

Image 2. Western blot using affinity purified anti-Gli-2 antibody shows detection of Gli-2 protein in rat testes (lane 1) and human HEK293 (lane 2) whole cell lysates (arrowhead). See Ruppert et al for testing conditions. Each lane contains approximately 35 µg of lysate. Primary antibody was used at a 1:400 dilution in 5% BLOTTO in PBS overnight at 4°C. The membrane was washed and reacted with a 1:10,000 dilution of 800 conjugated Gt-a-Rabbit IgG [H&L] MX10 for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



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Western Blotting

Image 3. Link between metformin and Hedgehog signaling. (A) GLI1, GLI2 and PTCH1 gene expression after 72-h metformin treatment. Means \pm SEM of two independent experiments. * $p < 0.05$ vs. control, (B) PTCH1, GLI1 and GLI2 protein expression after 72-h metformin treatment, (C) (p)AMPK protein and GLI1 expression in 22Rv1 cells transfected with AMPK siRNA and treated with metformin (5 mM) 72-h prior to protein lysis. GLI1, glioma-associated oncogene homolog 1, GLI2, glioma-associated oncogene homolog 2, PTCH1, patched 1. - figure provided by CiteAb. Source: PMID28208838