

## Product Datasheet

### GLI2 Antibody (orb345484)

<b>Catalog Number</b>	orb345484
<b>Description</b>	Gli-2 antibody
<b>Species/Host</b>	Rabbit
<b>Reactivity</b>	Human, Rat
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	ELISA, IHC, WB
<b>Immunogen</b>	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 30-65 of human Gli-2 (isoform a).
<b>Preservatives</b>	0.01% (w/v) Sodium Azide
<b>Form/Appearance</b>	Liquid (sterile filtered)
<b>Concentration</b>	1.0 mg/mL
<b>Storage</b>	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
<b>Note</b>	For research use only

#### Biorbyt Ltd.

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

#### Biorbyt LLC.

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

## 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 homogenates.

## Isotype

IgG

## Clonality

Polyclonal

## Antibody Type

Primary Antibody

## Purity

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.

## Uniprot ID

**P10070**

## NCBI

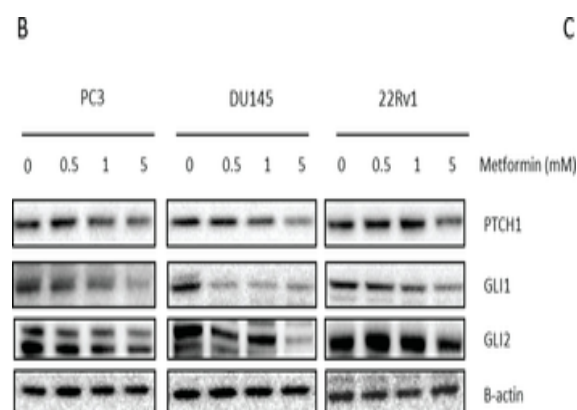
**NP\_005261.2**

## Dilution Range

ELISA: 1:2,000 - 1:12,000, IHC: 1:500 - 1:2,000, WB: 1:500 - 1:2,000

## Expiration Date

12 months from date of receipt.



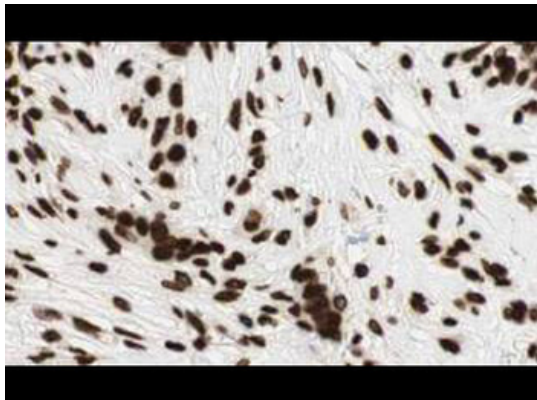
Link between metformin and Hedgehog signaling. (A) GLI1, GLI2 and PTCH1 gene expression after 72-h metformin treatment. Means  $\pm$  SEM of two independent experiments. \* p 0.05 vs. control; (B) PTCH1, GLI1 and GLI2 protein expression after 72-h metformin treatment; (C) (p)AMPK protein and GLI1 expression 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.

## Biorbyt Ltd.

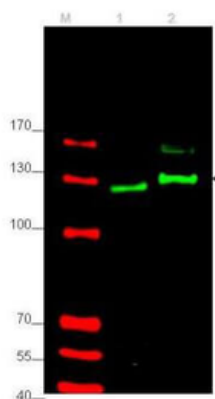
7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44201223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

## Biorbyt LLC.

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+14159065211) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)



Biorbyt's 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.



Western blot using Biorbyt's affinity purified anti-Gli-2 antibody shows detection of Gli-2 protein. Lane 1: rat testes and Lane 2: human HEK293 (p/n orb348669) whole cell lysates (arrowhead). Each lane contains approximately 35 µg of lysate. Primary antibody was used at a 1:400 dilution in 5% BLOTTO (p/n orb348624) in PBS overnight at 4°C. The membrane was washed and reacted with a 1:10000 dilution of IRDye® 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).

**Biorbyt Ltd.**

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

**Biorbyt LLC.**

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)