Datasheet for ABIN129624

anti-GLI2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	GLI2
Binding Specificity:	Internal Region
Reactivity:	Mouse
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 from an of Mouse Gli-2.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

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.

Target Details

	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 homolog (PTCH) gene expression. Gli-2 is also thought to play a role during embryogenesis. The encoded protein is associated with several phenotypes: Greig cephalopolysyndactyly syndrome, Pallister-Hall syndrome, pre-axial Synonyms: Gli 2 antibody, GLI family zinc finger 2 antibody, GLI kruppel family member 2 antibody, GLI Kruppel family member GLI2 antibody, Oncogene GLI2 antibody, Tax helper protein antibody, Tax helper protein 2 antibody
Gene ID:	14633, 124487481
UniProt:	Q8K0K3
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 WB and IHC. Multiple splice variants have been reported for this protein.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.02 mg/mL
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:	-20 °C

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**

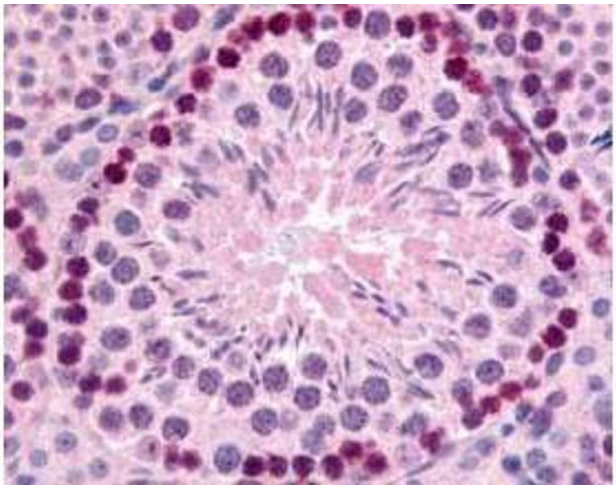
Publications

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).

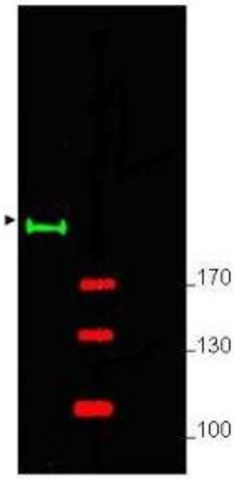
Huang, Ge, Izzi, Greenspan: "α3 Chains of type V collagen regulate breast tumour growth via glypican-1." in: **Nature communications**, Vol. 8, pp. 14351, (2018) (PubMed).

Images



Immunohistochemistry

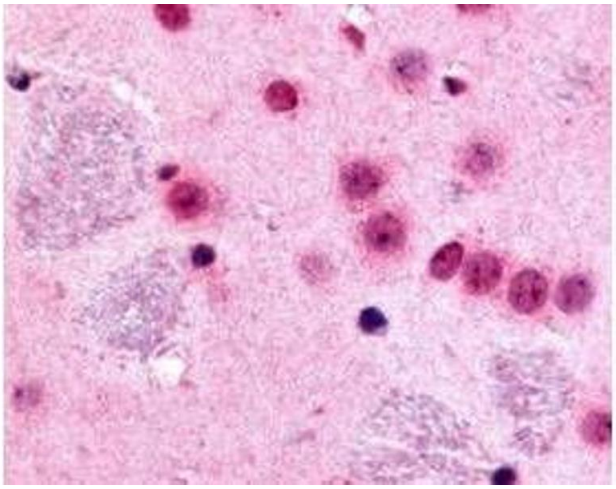
Image 1. Affinity Purified anti-mouse Gli-2 antibody was used at 10 µg/ml to evaluate staining on several mouse tissues. Moderate to strong staining was seen on many tissues, with low background staining. This image shows Gli-2 staining of mouse testis. Tissue was formalin-fixed and paraffin embedded.



Western Blotting

Image 2. Western blot using Affinity Purified anti-Gli-2 antibody shows detection of a predominant band at ~190 kDa corresponding to Gli-2 (arrowhead) in mouse brain whole cell lysate (lane 1). Pre-incubation of antibody with immunizing peptide completely blocks staining of this band (lane 2). ~ 25 µg of lysate was resolved on a 4-8% Tris-glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking with 5% goat serum and 0.5% BLOTTO in PBS, the membrane was probed with the primary antibody diluted to 1:750. Incubation was at room temperature for 2 h followed by washes and reaction with a 1:10,000 dilution of 800 conjugated Gt-a-Rabbit IgG (H&L) MX10 for 45 min at room temperature. Molecular weight markers are shown

(M) using the 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.



Immunohistochemistry

Image 3. Affinity Purified anti-mouse Gli-2 antibody was used at 10 µg/ml to evaluate staining on several mouse tissues. Moderate to strong staining was seen on many tissues with low background staining. This image shows Gli-2 staining of mouse brain. Tissue was formalin-fixed and paraffin embedded.