

# **Human GLI-2 Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF3526

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human GLI-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity wit recombinant mouse GLI-2 and 5% cross-reactivity with recombinant human (rh) GLI-1 and rhGLI-3 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human GLI-2 Ala2-Glu91 Accession # BAA25668		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

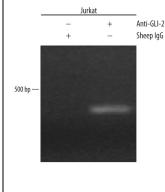
#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Human GLI-2
Chromatin Immunoprecipitation (ChIP)	5 μg/5 x 10 <sup>6</sup> cells	See Below
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skin, basal cell carcinoma, and prostate cancer tissue

## DATA

#### Chromatin Immunoprecipitation (ChIP)



Detection of GLI-2-regulated Genes by Chromatin Immunoprecipitation. Jurkat human acute T cell leukemia cell line treated with 50 ng/mL PMA and 200 ng/mL calcium ionomycin for 30 minutes was fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. GLI-2/DNA complexes were immunoprecipitated using 5 μg Sheep Anti-Human GLI-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3526) or control antibody (Catalog # 5-001-A) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Sheep IgG Secondary Antibody (Catalog # BAF016). Immunocomplexes were captured using 50 µL of MagCellect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The bcl-2 promoter was detected by standard PCR.

## PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

#### 

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

GLI-2 is a 166 kDa biopotential transcription regulator of the hedgehog signaling pathway. It contains 5 conserved tandem C2H2 zinc finger domains that are flanked by a repression domain at the N-terminal region and an activation domain in the C-terminal region. At least four isoforms that differ in their N- or C-terminal regions have been described. Transcriptional activity of GLI-2 is regulated by proteolytic processing and degradation. Within the region used as immunogen, human and mouse GLI-2 share 88% amino acid sequence homology.

Rev. 2/6/2018 Page 1 of 1

