

ARG44262 anti-GLI1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GLI1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog
Tested Application	FACS, ICC/IF
Specificity	This antibody is expected to recognize the reported isoforms
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GLI1
Species	Human
Immunogen	Synthetic peptide around the internal region of Human GLI1 (TYSQCPRLEHYGQ)
Conjugation	Un-conjugated
Alternate Names	GLI; Glioma-associated oncogene; Zinc finger protein GLI1; Oncogene GLI

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/µl
	ICC/IF	10 µg/µl
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

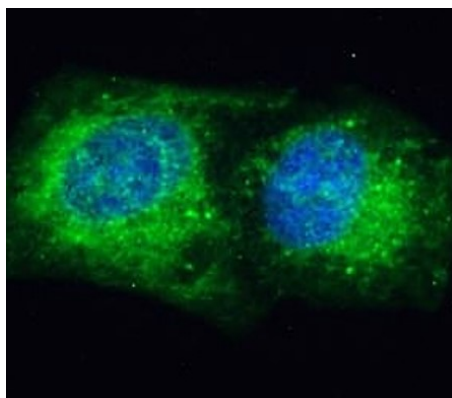
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

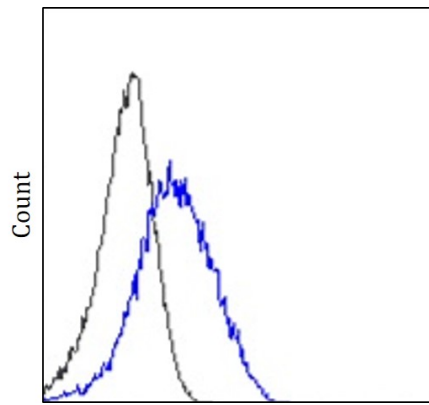
Gene Symbol	GLI1
Gene Full Name	GLI family zinc finger 1
Background	This gene encodes a member of the Kruppel family of zinc finger proteins. The encoded transcription factor is activated by the sonic hedgehog signal transduction cascade and regulates stem cell proliferation. The activity and nuclear localization of this protein is negatively regulated by p53 in an inhibitory loop. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
Function	<p>Acts as a transcriptional activator. Binds to the DNA consensus sequence 5'-GACCACCCA-3'. May regulate the transcription of specific genes during normal development. May play a role in craniofacial development and digital development, as well as development of the central nervous system and gastrointestinal tract. Mediates SHH signaling. Plays a role in cell proliferation and differentiation via its role in SHH signaling (Probable).</p> <p>Isoform 2: Acts as a transcriptional activator, but activates a different set of genes than isoform 1. Activates expression of CD24, unlike isoform 1. Mediates SHH signaling. Promotes cancer cell migration. [UniProt]</p>
PTM	<p>Phosphorylated in vitro by ULK3.</p> <p>Acetylation at Lys-518 down-regulates transcriptional activity. Deacetylated by HDAC1. [UniProt]</p>
Cellular Localization	Cytoplasm. Nucleus. Note=Tethered in the cytoplasm by binding to SUFU (PubMed:10806483). Activation and translocation to the nucleus is promoted by interaction with STK36 (PubMed:10806483). Phosphorylation by ULK3 may promote nuclear localization (PubMed:19878745). Translocation to the nucleus is promoted by interaction with ZIC1 (PubMed:11238441). Nucleus. [UniProt]

Images



ARG44262 anti-GLI1 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG44262 anti-GLI1 antibody at 10 µg/m dilution.



ARG44262 anti-GLI1 antibody FACS image

Flow Cytometry: HepG2 stained with ARG44262 anti-GLI1 antibody at 10 $\mu\text{g}/\text{m}$ dilution.