

Anti-KIF7 Antibody



Description

This gene encodes a cilia-associated protein belonging to the kinesin family. This protein plays a role in the sonic hedgehog (SHH) signaling pathway through the regulation of GLI transcription factors. It functions as a negative regulator of the SHH pathway by preventing inappropriate activation of GLI2 in the absence of ligand, and as a positive regulator by preventing the processing of GLI3 into its repressor form. Mutations in this gene have been associated with various ciliopathies.

Model	STJ117776
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1044-1343 of human KIF7 (NP_940927.2).
Gene ID	374654
Gene Symbol	KIF7
Dilution range	WB 1:200 - 1:2000
Tissue Specificity	Embryonic stem cells, melanotic melanoma and Jurkat T-cells, Expressed in heart, lung, liver, kidney, testis, retina, placenta, pancreas, colon, small intestine, prostate and thymus
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Kinesin-like protein KIF7

Molecular Weight	150.587 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:30497OMIM:146510Reactome:R-HSA-5610787
Alternative Names	Kinesin-like protein KIF7
Function	Essential for hedgehog signaling regulation: acts as both a negative and positive regulator of sonic hedgehog (Shh) and Indian hedgehog (Ihh) pathways, acting downstream of SMO, through both SUFU-dependent and -independent mechanisms ,
Cellular Localization	Cell projection, cilium,
Post-translational Modifications	Polyubiquitinated by UBR3,