Anti-KIF7 Mouse mAb

Purified Mouse Monoclonal Antibody

Catalog # M010705

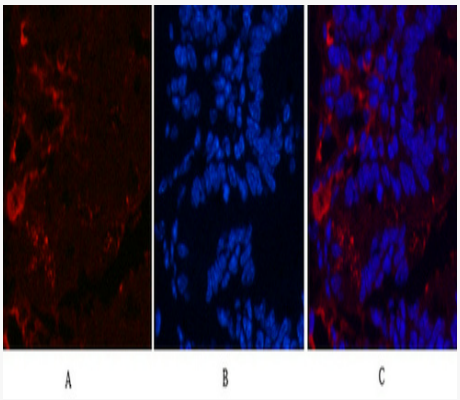
Product Information

Application	IHC-P/IF (Tissue-P), ICC/IF (Cell), ELISA
Reactivity	Human, Mouse (Cell), Rat
Dilution	IHC-P 1:50~1:100; IF 1:50~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	41K60K35
Isotype	IgG1
Label	Unconjugated
Immunogen	Synthetic Peptide of Kif 7
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-KIF7 antibody [41K60K35] is for research use only and not for use in diagnostic or therapeutic procedures.

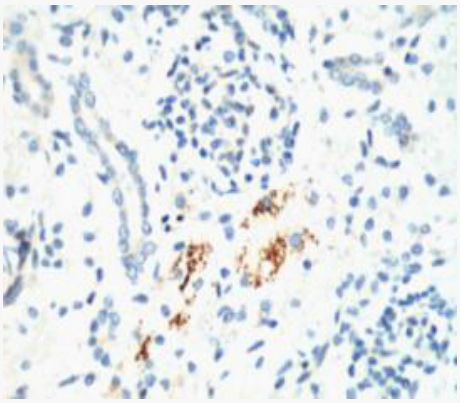
Protein Information

Synonyms	kinesin like protein KIF7, EQYK340, kif7.
Uniprot ID	Q2M1P5
Gene ID	374654
Background	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 (PubMed:21633164). Involved in the regulation of microtubular dynamics. Required for proper organization of the ciliary tip and control of ciliary localization of SUFU-GLI2 complexes . Required for localization of GLI3 to cilia in response to Shh. Negatively regulates Shh signaling by preventing inappropriate activation of the transcriptional activator GLI2 in the absence of ligand. Positively regulates Shh signaling by preventing the processing of the transcription factor GLI3 into its repressor form. In keratinocytes, promotes the dissociation of SUFU-GLI2 complexes, GLI2 nuclear translocation and Shh signaling activation . Involved in the regulation of epidermal differentiation and chondrocyte development .

Validation Images



Immunofluorescence analysis of KIF7 in mouse colon using KIF7 antibody [41K60K35] (red) , and DAPI (blue) .



Immunohistochemistry analysis of paraffin-embedded mouse Kidney tissue using KIF7 antibody [41K60K35]. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.