

KIF7 (2A7) MOUSE MAB

Cat.#: N261223

Product Name: Anti-KIF7 (2A7) Mouse Monoclonal Antibody

Synonyms: kinesin like protein KIF7; EQYK340; kif7

UNIPROT ID: Q2MIP5

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.

Immunogen: Synthetic Peptide of Kif 7

Applications: IHC-P, ICC/IF

Recommended Dilutions: IHC: 1/50-1/100 IF: 1/50-1/200

Host Species: Mouse

Clonality: Mouse Monoclonal

Clone ID: 2A7-10B8-9A9

MW: -

Isotype: IgG1

Purification: Affinity Purified

Species Reactivity: Human, Mouse, Rat

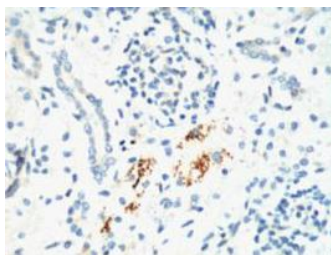
Conjugation: Unconjugated

Modification: Unmodified

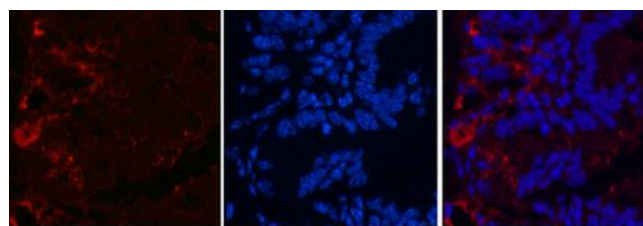
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Signal Transduction

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Immunohistochemistry analysis of paraffin-embedded mouse kidney tissue using KIF7 (2A7) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunofluorescence analysis of KIF7 (2A7) in mouse colon using KIF7 (2A7) antibody (red), and DAPI (blue).