SUFU monoclonal antibody

Catalog: MB67251 Host: Mouse Reactivity: Human, Mouse, Monkey

BackGround:

SUFU (Suppressor of Fused) was identified in Drosophila as a suppressor of the Fused (Fu) kinase that is essential for Hedgehog signaling during embryonic pattern formation. SUFU suppresses Hedgehog signaling by regulating the localization of the transcription factors Gli and Ci. In Drosophila, SUFU may also positively regulate Hedgehog signaling depending on SUFU protein levels and Hedgehog signal intensity. SUFU may function as a tumor suppressor as inactivation and loss of heterozygosity of SUFU is associated with human rhabdomyosarcomas and medulloblastomas. Deletion of SUFU in mice results in embryonic lethality, while heterozygotes exhibit developmental defects characteristic of basal cell nevus syndrome. This aberrant developmental pathway is attributed to ligand-independent activation of Hedgehog signaling. GSK-3β binds and phosphorylates SUFU in vitro and additional information predicts that GSK-3β may positively regulate Hedgehog signaling through modification of SUFU.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 54 kDa

Swiss-Prot:

Q9UMX1

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

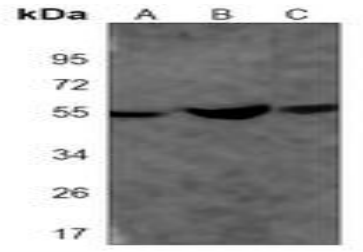
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

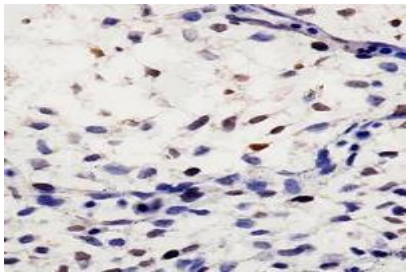
Specificity:

Recognizes endogenous levels of SUFU protein.

DATA:



Western blot analysis of SUFU expression in Hela (A), COS7 (B), LNCap (C) whole cell lysates.



Immunohistochemical analysis of SUFU staining in mouse embryo formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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