#2520 Store at -20C

SUFU (C54G2) Rabbit mAb



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UMX1	Entrez-Gene Id: 51684	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		SUFU (C54G2) Rabbit mAb detects endogenous level of total SUFU protein.					
Source / Purification	• • •	noclonal antibody is dues surrounding Lo		nunizing animals with a SUFU.	synthetic peptide corre	esponding to	
Background	ess sigr may inte is a resi nev Hec	SUFU (Suppressor of Fused) was identified in <i>Drosophila</i> as a suppressor of the Fused (Fu) kinase that is essential for Hedgehog signaling during embryonic pattern formation (1). SUFU suppresses Hedgehog signaling by regulating the localization of the transcription factors Gli and Ci (2,3). In <i>Drosophila</i> , SUFU may also positively regulate Hedgehog signaling depending on SUFU protein levels and Hedgehog signal intensity (4). SUFU may function as a tumor suppressor as inactivation and loss of heterozygosity of SUFU is associated with human rhabdomyosarcomas and medulloblastomas (5,6). 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 (7). GSK-3β binds and phosphorylates SUFU <i>in vitro</i> and additional information predicts that GSK-3β may positively regulate Hedgehog signaling through modification of SUFU (8).					
Background Refer	1. Pham, A. et al. (1995) <i>Genetics</i> 140, 587-598. 2. Barnfield, P.C. et al. (2005) <i>Differentiation</i> 73, 397-405. 3. Méthot, N. and Basler, K. (2000) <i>Development</i> 127, 4001-4010. 4. Dussillol-Godar, F. et al. (2006) <i>Dev. Biol.</i> 291, 53-66. 5. Tostar, U. et al. (2006) <i>J. Pathol.</i> 208, 17-25. 6. Taylor, M.D. et al. (2002) <i>Nat. Genet.</i> 31, 306-310.						

6. Taylor, M.D. et al. (2002) *Nat. Genet.* 31, 306-310.

7. Svärd, J. et al. (2006) Dev. Cell. 10, 187-197.

8. Takenaka, K. et al. (2007) Biochem. Biophys. Res. Commun. 353, 501-508.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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