Store at -20C

SUFU (C81H7) Rabbit mAb



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Applications: WB, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UMX1	Entrez-Gene ld: 51684
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	Im	munoprecipitation		1:50		
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 (C81H7) Rabbit mAb detects endogenous level of total SUFU protein.				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala340 of human SUFU.				
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 Refe	2. B 3. M 4. D 5. T	 Pham, A. et al. (1995) Genetics 140, 587-598. Barnfield, P.C. et al. (2005) Differentiation 73, 397-405. Méthot, N. and Basler, K. (2000) Development 127, 4001-4010. Dussillol-Godar, F. et al. (2006) Dev. Biol. 291, 53-66. Tostar, U. et al. (2006) J. Pathol. 208, 17-25. Taylor, M.D. et al. (2002) Nat. Genet. 31, 306-310. Svärd, J. et al. (2006) Dev. Cell. 10, 187-197. 				

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

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

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

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

Applications Key WB: Western Blotting IP: Immunoprecipitation

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

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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