#38410 Store at -20C

SNF2H (D4W6N) Rabbit mAb



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #O60264	Entrez-Gene Id: 8467	
Product Usage Information	Ap	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		SNF2H (D4W6N) Rabbit mAb recognizes endogenous levels of total SNF2H protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala65 of human SNF2H protein.					esponding to	
Background	swit rem chro Res diffe for I stuc SNF	Sucrose nonfermenting 2 homolog (SNF2H, SMARCA5) is one of two orthologs of the ISWI (imitation switch) ATPases encoded by the mammalian genome (1). SNF2H is part of the SNF2 family of chromatin remodeling factors that use ATP hydrolysis to catalyze biochemical reactions in several mammalian chromatin-remodeling complexes, including ACF1, RSF1, CHRAC, NoRC, WSTF, and WCRF180 (2). Research studies show that SNF2H is crucial for chromatin organization, DNA damage response, and differentiation (1-7). The SNF2H helicase facilitates DNA damage repair by actively moving nucleosomes for DNA damage response (DDR) proteins to effectively associate with damaged regions (3). Additional studies show that repair of double stranded breaks (DSBs) significantly decreases in the absence of SNF2H (3), and these cells become highly sensitive to DNA damage caused by x-rays and chemical treatments inducing DSBs (4,5).					
Background Refere	2. K 3. H 4. M 5. L	 Lazzaro, M.A. and Picketts, D.J. (2001) J Neurochem 77, 1145-56. Kasten, M.M. et al. (2011) Cell 144, 310.e1. Helfricht, A. et al. (2013) Cell Cycle 12, 3070-82. Mueller, A.C. et al. (2013) Oncogene 32, 1164-72. Lan, L. et al. (2010) Mol Cell 40, 976-87. Smeenk, G. et al. (2013) J Cell Sci 126, 889-903. 					

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:

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

7. Chioda, M. et al. (2010) Development 137, 3513-22.

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