

SNF2H Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit	UniProt ID: #060264	Entrez-Gene Id: 8467
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SNF2H Antibody recognizes endogenous levels of total SNF2H (SMARCA5) protein. This antibody does not cross-react with SMARCA1 protein.				
Species predict based on 100% homology	ted to react sequence	Bovine, Dog, Pig, Hors	se, Guinea Pig			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala65 of human SNF2H (SMARCA5) protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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 References		 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. Chioda, M. et al. (2010) Development 137, 3513-22. 				
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W: Western Blotting

Cross-Reactivity Key H: Human Mk: Monkey

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