NUT (C52B1) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-F	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit IgG	UniProt ID: #Q86Y26	Entrez-Gene Id 256646	
Product Usage Information	A	Application		Dilution			
	W	estern Blotting		1:1000			
	Im	nmunoprecipitation		1:50			
	Im	nmunohistochemistry	(Paraffin)	1:50 - 1:200			
	Im	nmunofluorescence (Frozen)	1:800 - 1:1600			
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.					
	For	For a carrier free (BSA and azide free) version of this product see product #64162.					
Specificity / Sensiti	vity NUT (C52B1) Rabbit mAb detects endogenous levels endogenous levels of the BRD4-NUT fusion protein f				•	•	
Species predicted treact based on 100 sequence homolog	%	nkey					
Source / Purification		noclonal antibody is man NUT protein.	produced by imm	nunizing animals with a r	recombinant protein co	orresponding to the	
Background	mic rea trai NU ver to c car lim	Nuclear protein in testis (NUT) is normally confined to the germ cells of the testis and ovary (1,2). NUT midline carcinoma (NMC) is a recently recognized cancer that is defined by the presence of chromosomal rearrangements involving the <i>NUT</i> gene on chromosome 15q14 (3). In most cases the chromosomal translocation occurs between NUT and BRD4 on chromosome 19, resulting in the formation of a BRD4-NUT fusion protein. In the remaining tumors, variant NUT rearrangements are present involving BRD3, a very close homolog of BRD4. BRD4-NUT and BRD3-NUT encode fusion proteins that appear to contribute to carcinogenesis by blocking epithelial cell differentiation. NMCs, which are aggressive and highly lethal carcinomas, are morphologically indistinguishable from other poorly differentiated carcinomas. Given the limited expression of endogenous NUT protein, this antibody can be used to detect NUT fusion proteins in tissues by immunohistochemistry and immunofluorescence (2).					
Background Refere	2. I	 French, C.A. et al. (2003) Cancer Res 63, 304-7. Haack, H. et al. (2009) Am J Surg Pathol 33, 984-91. French, C.A. et al. (2008) Oncogene 27, 2237-42. 					
Species Reactivity	Spe	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern 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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-F: Immunofluorescence (Frozen)

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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Trademarks and Patents

Limited Uses

NUT (C52B1) Rabbit mAb (#3625) Datasheet Without Images Cell Signaling Technology

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