#3625 Store at -20C

NUT (C52B1) Rabbit mAb



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Applications: W, 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		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence	-		Dilution 1:1000 1:50 1:50 - 1:200 1:800 - 1:16			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
		For a carrier free (BSA and azide free) version of this product see product #64162.						
Specificity/Sensitivity NUT (C52B1) Rabbit mAb detects endogenous levels of total NUT protein. The endogenous levels of the BRD4-NUT fusion protein found in NUT midline carc								
Species predict based on 100% homology		Monkey						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a recombinant protein corresponding to the human NUT protein.						
Background		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 Re	ferences	1. French, C.A. et al. (2003) <i>Cancer Res</i> 63, 304-7. 2. Haack, H. et al. (2009) <i>Am J Surg Pathol</i> 33, 984-91. 3. French, C.A. et al. (2008) <i>Oncogene</i> 27, 2237-42.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	≥y	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)						
Cross-Reactivit	у Кеу	H: Human R: Rat						
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		U.S. Patent No. 7,429,4	487, foreign equiva	lents, and child patents	deriving therefrom.			

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