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:3625

## NUT (C52B1) Rabbit mAb



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Applications: W, IP, IHC-P, IF-F	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 150	Source/Isotype: Rabbit IgG	UniProt ID: #Q86Y26	<b>Entrez-Gene Id:</b> 256646		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistry Immunofluorescence (F	r (Paraffin) Frozen)		<b>Dilution</b> 1:1000 1:50 1:50 - 1:200 1:800 - 1:160	0		
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/Sens	itivity	NUT (C52B1) Rabbit mAb detects endogenous levels of total NUT protein. The antibody also detects endogenous levels of the BRD4-NUT fusion protein found in NUT midline carcinoma (NMC).						
Species predicte based on 100% s homology	ed to react sequence	Monkey						
Source / Purifica	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 Ref	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.						
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Species Reactivi	ity	Species reactivity is dete	ermined by testing	g in at least one approve	d application (e.g., w	/estern blot).		
Western Blot Bu	ıffer	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 Ke	у	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-F:</b> Immunofluorescence (Frozen)						
Cross-Reactivity	/ Кеу	H: Human R: Rat						
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