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NIPSNAP1 (D1Y6S) Rabbit mAb pdate browser



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 29	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BPW8	Entrez-Gene Id 8508
Product Usage Information	•	Application Western Blotting Immunoprecipitation	ı		Dilution 1:1000 1:50	
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		NIPSNAP1 (D1Y6S) Rabbit mAb recognizes endogenous levels of total NIPSNAP1 protein. This antibody does not cross-react with NIPSNAP2 (GBAS) protein. This antibody recognizes the mature 29 kDa form of NIPSNAP1 as described in Okuda-Ashitaka, E. et al. (2012).				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg211 of human NIPSNAP1 protein.				
Background		4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (NIPSNAP1) is a member of a highly conserved family of proteins whose functions include the regulation of channel activity, mitochondrial function and cognitive function.				
		Interaction of NIPSNAP1 with the putative oncogene Ca ²⁺ -selective transient receptor potential vanilloid channel 6 (TRPV6) inhibits channel function at the cell membrane (1,2). In prostate cancer cells, alterations in chromatin structure that result in corresponding NIPSNAP1 gene inactivation have been implicated in the malignant phenotype (3).				
		In mouse brain, NIPSNAP has been shown to interact with mitochondrial amyloid precursor protein (APP), which may facilitate the effect of APP on mitochondrial function. (4). NIPSNAP1 expression is also altered in the brains of phenylketonuria (PKU) mice, implying a role for NIPSNAP1 in PKU-related cognitive impairment (5). NIPSNAP1 has also been implicated in pain transmission through its interaction with the neuropeptide nocistatin (NST) in mouse spinal cord (6).				
Background References		 Schoeber, J.P. et al. (2008) <i>Pflugers Arch</i> 457, 91-101. Lehen'kyi, V. et al. (2012) <i>J Physiol</i> 590, 1369-76. Malhotra, A. et al. (2013) <i>Cancer Biol Ther</i> 14, 840-52. Tummala, H. et al. (2010) <i>Eur J Neurosci</i> 31, 1926-34. Surendran, S. et al. (2005) <i>Neurochem Int</i> 46, 595-9. Okuda-Ashitaka, E. et al. (2012) <i>J Biol Chem</i> 287, 10403-13. 				
Species Reacti	vity	Species reactivity is d	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 IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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