

NAF-1/CISD2 (D4X4E) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit IgG	UniProt ID: #Q8N5K1	Entrez-Gene Id: 493856
VV, 1P	пічк	Endogenous	15	Rabbit 19G	#QoNSK1	493630
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		Immunoprecipitation			1:100	
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.				
Specificity/Sensitivity		NAF-1/CISD2 (D4X4E) Rabbit mAb recognizes endogenous levels of total NAF-1/CISD2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu70 of human NAF-1/CISD2 protein.				
Background		Nutrient-deprivation autophagy factor-1 (NAF-1) (also known as CISD2, CDGSH iron-sulfur domain-containing protein 2) is a member of NEET family of 2Fe-2S proteins, characterized by a unique CDGSH sequence at their Fe-S-cluster-binding domain (1). NAF-1/CISD2 is a multifunctional protein. In addition to its role in iron and ROS homeostasis, it has been shown to play a role in autophagy, neurodegenerative diseases, and aging (1-6). Enhanced expression of NAF-1/CISD2 is associated with many types of cancer. Silencing of NAF-1/CISD2 expression in cancer cells significantly inhibited proliferation and tumorigenicity; while overexpression of NAF-1/CISD2 significantly enhanced proliferation (2,7,8).				
Background Re	1. Tamir, S. et al. (2015) <i>Biochim Biophys Acta</i> 1853, 1294-315. 2. Chang, N.C. et al. (2012) <i>Autophagy</i> 8, 856-7. 3. Lipper, C.H. et al. (2015) <i>PLoS One</i> 10, e0139699. 4. Du, X. et al. (2015) <i>Cell Biol Int</i> 39, 816-23. 5. Chen, Y.F. et al. (2009) <i>Genes Dev</i> 23, 1183-94. 6. Chen, Y.F. et al. (2010) <i>Ann N Y Acad Sci</i> 1201, 58-64. 7. Yang, L. et al. (2016) <i>Oncotarget</i> 7, 22720-32. 8. Holt, S.H. et al. (2016) <i>J Cell Sci</i> 129, 155-65.					

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 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

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