

CISD1/mitoNEET (D5M4C) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 12	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZ45	Entrez-Gene Id: 55847
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200	
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		CISD1/mitoNEET (D5M4C) Rabbit mAb recognizes endogenous levels of total CISD1/mitoNEET protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp61 of human CISD1/mitoNEET protein.				
Background		CDGSH iron-sulfur domain-containing protein 1 (CISD1), also known as mitochondrial outer membrane iron-sulfur (2Fe-2S) protein (mitoNEET) was first identified as the target for the drug pioglitazone, used to treat diabetes (1-3). CISD1/mitoNEET regulates both mitochondrial iron transport into the matrix and mitochondrial respiratory capacity. It has also been shown to affect the dynamics of cellular and whole-body lipid homeostasis (2,4). Furthermore, research studies have shown that CISD1/mitoNEET is overexpressed in human epithelial breast cancer cells and it has been considered a potential chemotherapeutic target (6).				
Background References		 Colca, J.R. et al. (2004) Am J Physiol Endocrinol Metab 286, E252-60. Wiley, S.E. et al. (2007) Proc Natl Acad Sci U S A 104, 5318-23. Wiley, S.E. et al. (2007) J Biol Chem 282, 23745-9. Kusminski, C.M. et al. (2012) Nat Med 18, 1539-49. Sohn, Y.S. et al. (2013) Proc Natl Acad Sci U S A 110, 14676-81. Bai, F. et al. (2015) Proc Natl Acad Sci U S A 112, 3698-703. 				

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 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

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