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CIAO1 (D1B4G) Rabbit mAb



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 41	Source/Isotype: Rabbit IgG	UniProt ID: #O76071	Entrez-Gene Id: 9391
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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CIAO1 (D1B4G) Rabbit mAb recognizes endogenous levels of total CIAO1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly227 of human CIAO1 protein.				
Background		Iron-sulfur (Fe-S) clusters (ISC) are cofactors for many proteins that display a wide range of biological functions, such as DNA maintenance, transcription, translation, cellular metabolism, electron transport, and oxidative phosphorylation (1). While structurally simple, the synthesis and insertion of ISC into Fe-S proteins are complex processes that involve many different proteins. The cytosolic iron-sulfur assembly component 1 (CIAO1) protein is a key component of the cytosolic ISC assembly machinery that incorporates ISC into cytoplasmic and nuclear Fe-S proteins in eukaryotic cells (1,2). CIAO1, along with MMS19, XPD, FAM96B, and ANT2, comprise a complex that localizes to the mitotic spindle during mitosis, which suggests a role in chromosome segregation (3-6). The CIAO1 protein interacts with Wilms' tumor suppressor protein (WT1) and may affect its transactivation activity (7).				
Background Re	eferences	1. Wang, J. and Pantopoulos, K. (2011) <i>Biochem J</i> 434, 365-81. 2. Stehling, O. et al. (2013) <i>Cell Metab</i> 18, 187-98. 3. Ito, S. et al. (2010) <i>Mol Cell</i> 39, 632-40. 4. Gari, K. et al. (2012) <i>Science</i> 337, 243-5. 5. Stehling, O. et al. (2012) <i>Science</i> 337, 195-9. 6. Seki, M. et al. (2013) <i>J Biol Chem</i> 288, 16680-9. 7. Johnstone, R.W. et al. (1998) <i>J Biol Chem</i> 273, 10880-7.				

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

Western Blot BufferIMPORTANT: 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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