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CIAO1 (D1B4G) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 41	Source/Isotype: Rabbit IgG	UniProt ID: #O76071	Entrez-Gene ld: 9391	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	lmı	nunoprecipitation			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 / Sens	sitivity CIA	CIAO1 (D1B4G) Rabbit mAb recognizes endogenous levels of total CIAO1 protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly227 of human CIAO1 protein.					
Background	func oxid prot com inco MM whic	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 Ref	2. S 3. Iti 4. G 5. S 6. S	tehling, O. et al. (20 o, S. et al. (2010) <i>M</i> ari, K. et al. (2012) tehling, O. et al. (20 eki, M. et al. (2013)	13) Cell Metab 1 ol Cell 39, 632-4 Science 337, 243 12) Science 337 J Biol Chem 288	ce 337, 243-5.			

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 WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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