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# CIAO1 Antibody (Center) Blocking Peptide

**Synthetic peptide**
**Catalog # BP14244c**

## Specification

### CIAO1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O76071

### CIAO1 Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 9391

**Other Names**
Probable cytosolic iron-sulfur protein assembly protein CIAO1 {ECO:0000255|HAMAP-Rule:MF_03037}, WD repeat-containing protein 39 {ECO:0000255|HAMAP-Rule:MF_03037}, CIAO1 {ECO:0000255|HAMAP-Rule:MF_03037}, WDR39

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### CIAO1 Antibody (Center) Blocking Peptide - Protein Information

**Name** CIAO1 {ECO:0000255|HAMAP-Rule:MF_03037}

**Function**
Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into extramitochondrial Fe/S proteins (PubMed:<a href="http://www.uniprot.org/citations/17937914" target="_blank">17937914</a>, PubMed:<a href="http://www.uniprot.org/citations/23891004" target="_blank">23891004</a>). As a CIA complex component, interacts specifically with CIAO2A or CIAO2B and MMS19 to assist different branches of iron-sulfur protein assembly, depending of its interactors. The complex CIAO1:CIAO2B:MMS19 binds to and facilitates the assembly of most cytosolic-nuclear Fe/S proteins. CIAO1:CIAO2A specifically matures ACO1 and stabilizes IREB2 (PubMed:<a href="http://www.uniprot.org/citations/23891004" target="_blank">23891004</a>). Seems to specifically modulate the transactivation activity of WT1 (PubMed:<a href="http://www.uniprot.org/citations/9556563" target="_blank">9556563</a>). As part of the mitotic spindle-associated MMXD complex it may play a role in chromosome segregation (PubMed:<a href="http://www.uniprot.org/citations/20797633" target="_blank">20797633</a>).

**Cellular Location**
Cytoplasm.

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## CIAO1 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## CIAO1 Antibody (Center) Blocking Peptide - Images

## CIAO1 Antibody (Center) Blocking Peptide - Background

CIAO1 is an essential component of the cytosolic iron-sulfur (Fe/S) protein assembly machinery. Required for the maturation of extramitochondrial Fe/S proteins. Seems to specifically modulate the transactivation activity of WT1.

## CIAO1 Antibody (Center) Blocking Peptide - References

Srinivasan, V., et al. Structure 15(10):1246-1257(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Higa, L.A., et al. Nat. Cell Biol. 8(11):1277-1283(2006)Johnstone, R.W., et al. J. Biol. Chem. 273(18):10880-10887(1998)