

CIAO1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14244c**Specification**

CIAO1 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	O76071
Other Accession	Q32PJ6 , NP_004795.1
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37840
Antigen Region	155-183

CIAO1 Antibody (Center) - 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

Target/Specificity

This CIAO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 155-183 amino acids from the Central region of human CIAO1.

Dilution

WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CIAO1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CIAO1 Antibody (Center) - 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:[17937914](#), PubMed:[23891004](#), PubMed:[38950322](#)). 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:[23891004](#)). Seems to specifically modulate the transactivation activity of WT1 (PubMed:[9556563](#)). As part of the mitotic spindle-associated MMXD complex it may play a role in chromosome segregation (PubMed:[20797633](#)).

Cellular Location

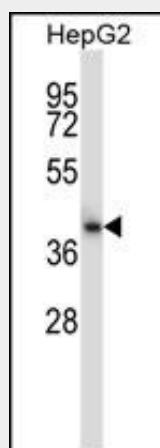
Cytoplasm.

CIAO1 Antibody (Center) - Protocols

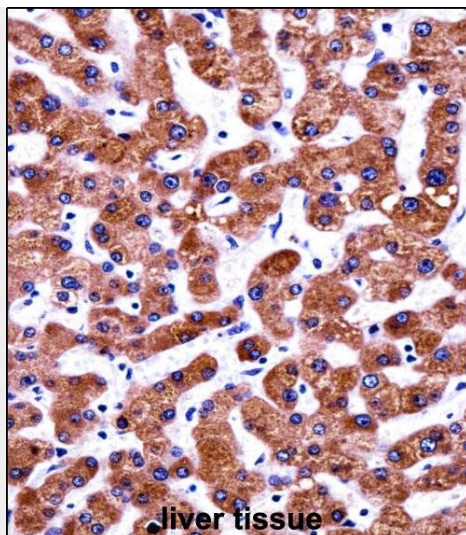
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CIAO1 Antibody (Center) - Images



CIAO1 Antibody (Center) (Cat. #AP14244c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the CIAO1 antibody detected the CIAO1 protein (arrow).



CIAO1 Antibody (Center) (AP14244c) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CIAO1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

CIAO1 Antibody (Center) - 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) - 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)