

ORNT2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18166c

Specification

ORNT2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9BXI2
Other Accession	NP_114153.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32580
Antigen Region	78-107

ORNT2 Antibody (Center) - Additional Information

Gene ID 83884

Other Names

Mitochondrial ornithine transporter 2, Solute carrier family 25 member 2, SLC25A2, ORNT2

Target/Specificity

This ORNT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-107 amino acids from the Central region of human ORNT2.

Dilution

WB~~1:1000

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

ORNT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ORNT2 Antibody (Center) - Protein Information

Name SLC25A2 ([HGNC:22921](#))

Function Mitochondrial transporter of the positively charged amino acids ornithine, lysine and

arginine, and the neutral amino acid citrulline (PubMed:[12807890](#)). In addition, transports the basic amino acids histidine, homoarginine, and asymmetric dimethylarginine (aDMA), but not symmetric DMA, and the D-forms of lysine, arginine, ornithine and histidine (PubMed:[12807890](#), PubMed:[26403849](#)). Functions by both counter-exchange and uniport mechanisms (PubMed:[26403849](#)).

Cellular Location

Mitochondrion membrane; Multi-pass membrane protein. Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

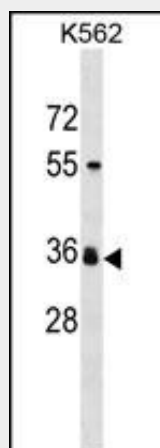
Expressed in liver, testis, spleen, lung, pancreas, and small intestine and expressed poorly in other tissues

ORNT2 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](#)

ORNT2 Antibody (Center) - Images



ORNT2 Antibody (Center) (Cat. #AP18166c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the ORNT2 antibody detected the ORNT2 protein (arrow).

ORNT2 Antibody (Center) - Background

Located between the protocadherin beta and gamma gene clusters on chromosome 5, this intronless gene encodes a protein that is highly similar to an ornithine transporter localized in the mitochondrial inner membrane. The encoded protein most likely plays a role in metabolism as a mitochondrial transport protein.

ORNT2 Antibody (Center) - References

Trynka, G., et al. Gut 58(8):1078-1083(2009)
Fiermonte, G., et al. J. Biol. Chem. 278(35):32778-32783(2003)
Camacho, J.A., et al. Mol. Genet. Metab. 79(4):257-271(2003)
Wu, Q., et al. Genome Res. 11(3):389-404(2001)
Porter, R.K. Biochim. Biophys. Acta 1459 (2-3), 356-362 (2000) :