

ODC Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51516**Specification**

ODC Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BOT8
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33 KDa

ODC Antibody - Additional Information**Gene ID** 89874**Other Names**

Mitochondrial 2-oxodicarboxylate carrier, Solute carrier family 25 member 21, SLC25A21, ODC

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ODC. The exact sequence is proprietary.

Dilution

WB~~1:1000

IHC-P~~N/A

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ODC Antibody - Protein Information**Name** SLC25A21**Synonyms** ODC**Function**

Transports dicarboxylates across the inner membranes of mitochondria by a counter-exchange mechanism (PubMed: 11083877). Can transport 2-oxoadipate (2-oxohexanedioate), 2-oxoglutarate, adipate (hexanedioate), glutarate, and to a lesser extent, pimelate (heptanedioate), 2-oxopimelate (2-oxoheptanedioate), 2-aminoadipate (2-aminohexanedioate), oxaloacetate, and citrate (PubMed: 11083877).

target="_blank">11083877). Plays a central role in catabolism of lysine, hydroxylysine, and tryptophan, by transporting common metabolite intermediates (such as 2-oxoadipate) into the mitochondria, where it is converted into acetyl-CoA and can enter the citric acid (TCA) cycle (Probable).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Expressed in placenta, gall bladder and colon.

ODC Antibody - 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](#)

ODC Antibody - Images**ODC Antibody - Background**

Transports C5-C7 oxodicarboxylates across the inner membranes of mitochondria. Can transport 2-oxoadipate, 2-oxoglutarate, adipate, glutarate, and to a lesser extent, pimelate, 2-oxopimelate, 2-aminoadipate, oxaloacetate, and citrate.

ODC Antibody - References

Fiermonte G., et al. J. Biol. Chem. 276:8225-8230(2001).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Heilig R., et al. Nature 421:601-607(2003).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).