

ODC Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51516

Product Information

Application WB, IHC-P
Primary Accession Q9BQT8
Reactivity Human, Rat
Host Rabbit
Clonality Polyclonal
Calculated MW 33303

Additional Information

Gene ID 89874

Other Names Mitochondrial 2-oxodicarboxylate carrier, Solute carrier family 25 member 21,

SLC25A21, ODC

Dilution WB~~1:1000 IHC-P~~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

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). 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.

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.

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.