

ODC Polyclonal Antibody

Catalog # AP71419

Product Information

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

Additional Information

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|---------------------------|---|
| Gene ID | 89874 |
| Other Names | SLC25A21; ODC; Mitochondrial 2-oxodicarboxylate carrier; Solute carrier family 25 member 21 |
| Dilution | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

Protein Information

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|--------------------------|--|
| 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.

Images



Western Blot analysis of various cells using ODC Polyclonal Antibody

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