

# ARALAR Polyclonal Antibody

Catalog # AP68488

## Product Information

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Application	WB, IHC-P, IF, ICC, E
Primary Accession	<a href="#">O75746</a>
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74762

## Additional Information

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Gene ID	8604
Other Names	SLC25A12; ARALAR1; Calcium-binding mitochondrial carrier protein Aralar1; Mitochondrial aspartate glutamate carrier 1; Solute carrier family 25 member 12
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~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	SLC25A12 ( <a href="#">HGNC:10982</a> )
Function	Mitochondrial electrogenic aspartate/glutamate antiporter that favors efflux of aspartate and entry of glutamate and proton within the mitochondria as part of the malate-aspartate shuttle (PubMed: <a href="#">11566871</a> , PubMed: <a href="#">19641205</a> , PubMed: <a href="#">24515575</a> , PubMed: <a href="#">38945283</a> ). Also mediates the uptake of L-cysteinesulfinat (3-sulfin-L-alanine) by mitochondria in exchange of L-glutamate and proton (PubMed: <a href="#">11566871</a> ). Can also exchange L-cysteinesulfinat with aspartate in their anionic form without any proton translocation (PubMed: <a href="#">11566871</a> ). Lacks transport activity towards L-glutamine or gamma-aminobutyric acid (GABA) (PubMed: <a href="#">38945283</a> ).
Cellular Location	Mitochondrion inner membrane; Multi-pass membrane protein
Tissue Location	Expressed predominantly in the heart and skeletal muscle, weakly in brain and kidney.

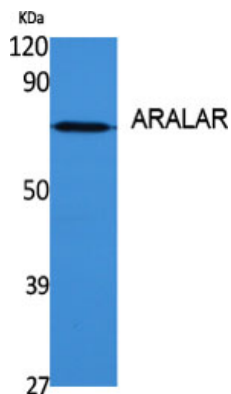
## Background

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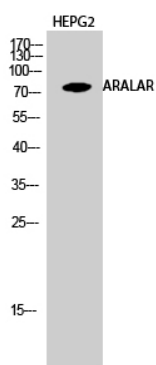
Mitochondrial and calcium-binding carrier that catalyzes the calcium-dependent exchange of cytoplasmic glutamate with mitochondrial aspartate across the mitochondrial inner membrane (PubMed:[11566871](#), PubMed:[25410934](#)). May have a function in the urea cycle (PubMed:[11566871](#)).

## Images

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Western Blot analysis of various cells using ARALAR Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HEPG2 cells using ARALAR Polyclonal Antibody diluted at 1 : 1000

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