

# **ARALAR Polyclonal Antibody**

Catalog # AP68488

### **Product Information**

ApplicationWB, IHC-PPrimary AccessionQ75746ReactivityHumanHostRabbitClonalityPolyclonalCalculated MW74762

## **Additional Information**

Gene ID 8604

**Other Names** SLC25A12; ARALAR1; Calcium-binding mitochondrial carrier protein Aralar1;

Mitochondrial aspartate glutamate carrier 1; Solute carrier family 25 member

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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

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **Protein Information**

Name SLC25A12 ( <u>HGNC:10982</u>)

**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:11566871, PubMed:19641205, PubMed:24515575, PubMed:38945283). Also mediates the uptake of L-cysteinesulfinate (3-sulfino-L-alanine) by mitochondria in exchange of L-glutamate and proton (PubMed:11566871). Can also exchange L-cysteinesulfinate with aspartate in their anionic form without any proton

translocation (PubMed: 11566871). Lacks transport activity towards L-glutamine or gamma-aminobutyric acid (GABA) (PubMed: 38945283).

**Cellular Location** Mitochondrion inner membrane; Multi-pass membrane protein

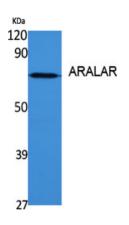
**Tissue Location** Expressed predominantly in the heart and skeletal muscle, weakly in brain

and kidney.

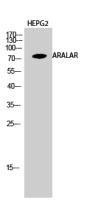
# **Background**

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**



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

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