

EFHA1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59102**Specification**

EFHA1 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8IYU8
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49666

EFHA1 Polyclonal Antibody - Additional Information**Gene ID** 221154**Other Names**

Calcium uptake protein 2, mitochondrial, EF-hand domain-containing family member A1, MICU2, EFHA1

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

EFHA1 Polyclonal Antibody - Protein Information**Name** MICU2 {ECO:0000303|PubMed:24231807, ECO:0000312|HGNC:HGNC:31830}**Function**

Calcium sensor of the mitochondrial calcium uniporter (MCU) channel, which senses calcium level via its EF-hand domains (PubMed: [24503055](http://www.uniprot.org/citations/24503055), PubMed: [24560927](http://www.uniprot.org/citations/24560927), PubMed: [26903221](http://www.uniprot.org/citations/26903221), PubMed: [28615291](http://www.uniprot.org/citations/28615291), PubMed: [30699349](http://www.uniprot.org/citations/30699349), PubMed: [31397067](http://www.uniprot.org/citations/31397067), PubMed: [32494073](http://www.uniprot.org/citations/32494073), PubMed: [32667285](http://www.uniprot.org/citations/32667285), PubMed: [32762847](http://www.uniprot.org/citations/32762847), PubMed: [32790952](http://www.uniprot.org/citations/32790952)). MICU1 and MICU2 form a disulfide-linked heterodimer that stimulates and inhibits MCU activity, depending on the concentration of calcium (PubMed: [24560927](http://www.uniprot.org/citations/24560927), PubMed: [26903221](http://www.uniprot.org/citations/26903221), PubMed: [24503055](http://www.uniprot.org/citations/24503055), PubMed: [24560927](http://www.uniprot.org/citations/24560927), PubMed: [26903221](http://www.uniprot.org/citations/26903221), PubMed: [28615291](http://www.uniprot.org/citations/28615291), PubMed: [30699349](http://www.uniprot.org/citations/30699349), PubMed: [31397067](http://www.uniprot.org/citations/31397067), PubMed: [32494073](http://www.uniprot.org/citations/32494073), PubMed: [32667285](http://www.uniprot.org/citations/32667285), PubMed: [32762847](http://www.uniprot.org/citations/32762847), PubMed: [32790952](http://www.uniprot.org/citations/32790952)).

href="http://www.uniprot.org/citations/28615291" target="_blank">28615291, PubMed:30699349, PubMed:31397067, PubMed:32148862, PubMed:32494073, PubMed:32667285, PubMed:32762847, PubMed:32790952). At low calcium levels, MICU1 occludes the pore of the MCU channel, preventing mitochondrial calcium uptake (PubMed:32494073, PubMed:32667285, PubMed:32762847). At higher calcium levels, calcium-binding to MICU1 and MICU2 induces a conformational change that weakens MCU-MICU1 interactions and moves the MICU1-MICU2 heterodimer away from the pore, allowing calcium permeation through the MCU channel (PubMed:32494073, PubMed:32667285, PubMed:32762847).

Cellular Location

Mitochondrion intermembrane space Mitochondrion inner membrane Note=Recruited to the mitochondrial inner membrane via its association with the uniplex complex.

EFHA1 Polyclonal 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](#)

EFHA1 Polyclonal Antibody - Images