

EFHA1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8873c**Specification**

EFHA1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8IYU8](#)**EFHA1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 221154**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

EFHA1 Antibody (Center) Blocking Peptide - 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, PubMed:24560927, PubMed:26903221, PubMed:28615291, PubMed:30699349, PubMed:31397067, PubMed:32494073, PubMed:32667285, PubMed:32762847, PubMed:32790952). MICU1 and MICU2 form a disulfide- linked heterodimer that stimulates and inhibits MCU activity, depending on the concentration of calcium (PubMed:24560927, PubMed:26903221, PubMed:28615291, PubMed:30699349, PubMed:31397067, PubMed:32494073, PubMed:32667285, PubMed:32762847, PubMed:32790952).

href="http://www.uniprot.org/citations/31397067" target="_blank">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 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

EFHA1 Antibody (Center) Blocking Peptide - Images

EFHA1 Antibody (Center) Blocking Peptide - References

Dunham,A.,et.al., Nature 428 (6982), 522-528 (2004)