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ETHE1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP6641c

Specification

ETHE1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O95571

ETHE1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 23474

Other Names
Persulfide dioxygenase ETHE1, mitochondrial, Ethylmalonic encephalopathy protein 1, Hepatoma subtracted clone one protein, Sulfur dioxygenase ETHE1, ETHE1, HSCO

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6641c was selected from the Center region of human ETHE1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ETHE1 Antibody (Center) Blocking Peptide - Protein Information

Name ETHE1

Synonyms HSCO

Function
Sulfur dioxygenase that plays an essential role in hydrogen sulfide catabolism in the mitochondrial matrix. Hydrogen sulfide (H(2)S) is first oxidized by SQRDL, giving rise to cysteine persulfide residues. ETHE1 consumes molecular oxygen to catalyze the oxidation of the persulfide, once it has been transferred to a thiophilic acceptor, such as glutathione (R-SSH). Plays an important role in metabolic homeostasis in mitochondria by metabolizing hydrogen sulfide and preventing the accumulation of supraphysiological H(2)S levels that have toxic effects, due to the inhibition of cytochrome c oxidase. First described as a protein that can shuttle between the nucleus and the cytoplasm and suppress p53-induced apoptosis by sequestering the transcription factor RELA/NFKB3 in the cytoplasm and preventing its accumulation in the nucleus (PubMed:<a

href="http://www.uniprot.org/citations/12398897" target="_blank">12398897).

Cellular Location
Cytoplasm. Nucleus. Mitochondrion matrix

Tissue Location
Ubiquitously expressed.

ETHE1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ETHE1 Antibody (Center) Blocking Peptide - Images

ETHE1 Antibody (Center) Blocking Peptide - Background

ETHE1 is a sulfur dioxygenase that localizes within the mitochondrial matrix. The enzyme functions in sulfide catabolism. Mutations in its gene result in ethylmalonic encephalopathy.

ETHE1 Antibody (Center) Blocking Peptide - References

Tiranti,V., Nat. Med. 15 (2), 200-205 (2009)Mineri,R., J. Med. Genet. 45 (7), 473-478 (2008)