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ETHE1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6641b

Specification

ETHE1 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O95571
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**27873**
Antigen Region	**180-209**

ETHE1 Antibody (C-term) - 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
This ETHE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-209 amino acids from the C-terminal region of human ETHE1.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ETHE1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ETHE1 Antibody (C-term) - Protein Information

Name ETHE1

Synonyms HSCO

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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:12398897).

Cellular Location
Cytoplasm. Nucleus. Mitochondrion matrix

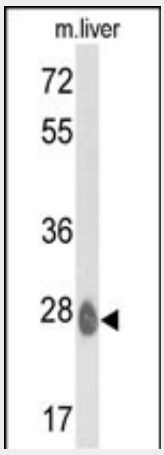
Tissue Location
Ubiquitously expressed.

ETHE1 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ETHE1 Antibody (C-term) - Images



Western blot analysis of ETHE1 Antibody (C-term) (Cat. #AP6641b) in mouse liver tissue lysates (35ug/lane).ETHE1 (arrow) was detected using the purified Pab.

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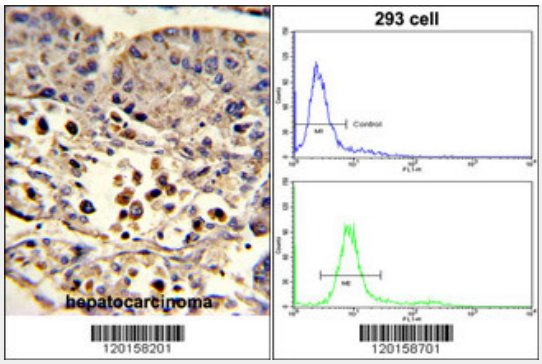

(LEFT)Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ETHE1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. (RIGHT)Flow cytometric analysis of 293 cells using ETHE1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ETHE1 Antibody (C-term) - 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 (C-term) - References

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