

## ETHE1 Rabbit pAb

CatalogNo: YN8517

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB

#### MW

- 28kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

#### Storage\*

-15°C to -25°C/1 year(Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

#### Clonality

Polyclonal

### | Immunogen Information

#### Immunogen

Synthesized peptide derived from human ETHE1

#### Specificity

This antibody detects endogenous levels of ETHE1 at Human, Mouse

### | Target Information

#### Gene name

ETHE1 HSCO

**Protein Name** Protein ETHE1, mitochondrial (Ethylmalonic encephalopathy protein 1) (Hepatoma subtracted clone one protein)

Organism	Gene ID	UniProt ID
Human	<a href="#">23474</a> ;	<a href="#">O95571</a> ;
Mouse	<a href="#">66071</a> ;	<a href="#">Q9DCM0</a> ;

**Cellular Localization** Cytoplasm . Nucleus . Mitochondrion matrix .

**Tissue specificity** Ubiquitously expressed.

**Function** Sulfur dioxygenase that plays an essential role in hydrogen sulfide catabolism in the mitochondrial matrix. Hydrogen sulfide (H<sub>2</sub>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<sub>2</sub>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 .

## Validation Data

## Contact information

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**ETHE1 Rabbit pAb**

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