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SUOX Recombinant Rabbit mAb

Catalog # AP100045

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P51687
Other Accession	P51687
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Recombinant
Calculated MW	60283
Physical State	Liquid
Immunogen	A synthesized peptide derived from human SUOX
Epitope Specificity	150-190
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Contains 1 cytochrome b5 heme-binding domain.
SUBUNIT	Homodimer.
DISEASE	Defects in SUOX are the cause of isolated sulfite oxidase deficiency (ISOD) [MIM:272300]; also known as sulfocysteinuria. ISOD is characterized by neurological abnormalities including multicystic leukoencephalopathy with brain atrophy. Patients often suffer from seizures. Often leads to death at an early age.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Catalyzes the oxidation of sulfite to sulfate, the terminal reaction in the oxidative degradation of sulfur-containing amino acids.

Additional Information

Gene ID	6821
Other Names	SUOX_HUMAN; SUOX; 1.8.3.1; SUOX_MOUSE; sulfite oxidase
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

Protein Information

Name	SUOX
Function	Catalyzes the oxidation of sulfite to sulfate, the terminal reaction in the oxidative degradation of sulfur-containing amino acids (By similarity). Can run in reverse direction and reduce nitrite to nitric oxide under physiologically relevant conditions, such as hypoxia (PubMed:41337830).
Cellular Location	Mitochondrion intermembrane space {ECO:0000250|UniProtKB:Q07116}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.