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Methionine Sulfoxide Reductase A Rabbit pAb

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Catalog # AP57257

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UJ68
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26132
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Methionine Sulfoxide Reductase A
Epitope Specificity	21-120/235
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm; Cytoplasm. Nucleus and Mitochondrion.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a ubiquitous and highly conserved protein that carries out the enzymatic reduction of methionine sulfoxide to methionine. Human and animal studies have shown the highest levels of expression in kidney and nervous tissue. The protein functions in the repair of oxidatively damaged proteins to restore biological activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Additional Information

Gene ID	4482
Other Names	Mitochondrial peptide methionine sulfoxide reductase, 1.8.4.11, Peptide-methionine (S)-S-oxide reductase, Peptide Met(O) reductase, Protein-methionine-S-oxide reductase, PMSR, MSRA
Dilution	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.

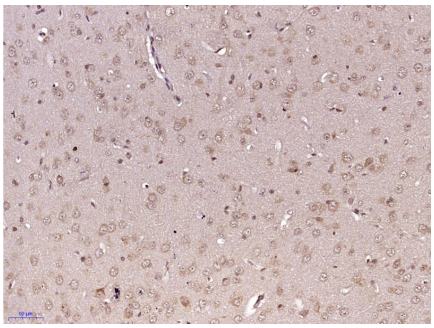
Protein Information

Name	MSRA
Function	[Isoform 1]: Catalyzes the reversible oxidation-reduction of methionine sulfoxide in proteins to methionine. Has an important function as a repair enzyme for proteins that have been inactivated by oxidation (PubMed:10452521, PubMed:12039877). Plays a crucial role in repairing oxidized methionine residues in key lens proteins, such as alpha-crystallin (CRYAA/CRYAB) and cytochrome c (CYCS), thereby restoring their function and maintaining lens transparency (By similarity).
Cellular Location	[Isoform 1]: Mitochondrion. Mitochondrion matrix. Cytoplasm [Isoform 3]: Cytoplasm. Nucleus
Tissue Location	Ubiquitous. Highest expression in adult kidney and cerebellum, followed by liver, heart ventricles, bone marrow and hippocampus

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Methionine Sulfoxide Reductase A) Polyclonal Antibody, Unconjugated (AP57257) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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