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MSRB3 Rabbit mAb

Catalog # AP75743

Product Information

Application	WB
Primary Accession	Q8IXL7
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	20702

Additional Information

Gene ID	253827
Other Names	MSRB3
Dilution	WB~~1:500-1:1000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

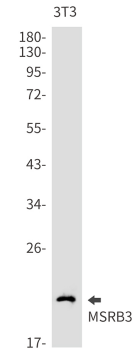
Name	MSRB3
Function	Catalyzes the reduction of free and protein-bound methionine sulfoxide to methionine. Isoform 2 is essential for hearing.
Cellular Location	[Isoform 1]: Endoplasmic reticulum.
Tissue Location	Widely expressed.

Background

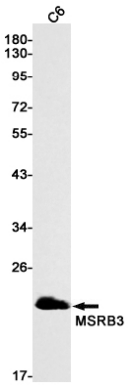
The methionine sulfoxide reductase B3 gene (MsrB3), a protein repair enzyme, has been implicated in large scale stereocilia bundle degeneration, as well as many other factors such as gestational age and tolerance to cold environments in plants. Although the exact process of pathogenesis is unknown, it seems to be related to apoptotic cell death. A study based on splicing morpholinos to down-regulate MsrB3 expression in

zebrafish showed shorter, thinner, and more crowded cilia, as well as small, misplaced otoliths. Several stereocilia also underwent apoptosis. Injection with wild-type MsrB3 mRNA rescued auditory deficits, suggesting MsrB3 helps prevent apoptosis.

Images



Western blot analysis of MSRB3 in 3T3 lysates using MSRB3 antibody.



Western blot analysis of MSRB3 in C6 lysates using MSRB3 antibody.

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