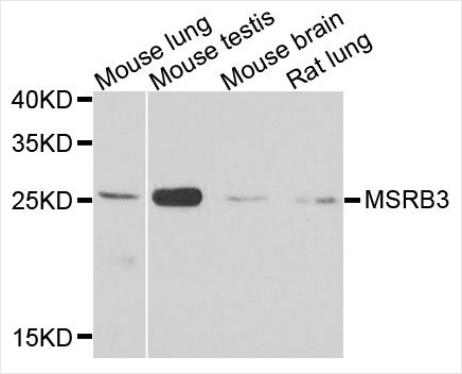
MSRB3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSRB3, Polyclonal Antibody
Full Product Name	MSRB3 Polyclonal Antibody
Product Gene Name	anti-MSRB3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	21kDa
OMIM	613718
3D Structure	ModBase 3D Structure for Q8IXL7
Immunogen	Recombinant protein of human MSRB3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MSRB3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MSRB3 antibody	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Related Product Information for anti-MSRB3 antibody	The protein encoded by this gene catalyzes the reduction of methionine sulfoxide to methionine. This enzyme acts as a monomer and requires zinc as a cofactor. Several transcript variants encoding two different isoforms have been found for this gene. One of the isoforms localizes to mitochondria while the other localizes to endoplasmic reticula.
Other Notes	Small volumes of anti-MSRB3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MSRB3 purchase	MBS9128395 is an antibody targeting MSRB3. Also known as MSRB3 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MSRB3 antibody
Western blot analysis of extracts of various cell lines, using MSRB3 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSRB3. It may not necessarily be applicable to this product.

NCBI GI #	73089054
NCBI GeneID	253827
NCBI Accession #	NP_001026849.1
UniProt Primary Accession #	Q8IXL7
UniProt Secondary Accession #	Q6UXS2; B4DR19; B7ZAQ0
UniProt Related Accession #	Q8IXL7
GenBank Nucleotide #	NM_001031679.2
NCBI Official Full Name	methionine-R-sulfoxide reductase B3 isoform 2
NCBI Official Synonym Full Names	methionine sulfoxide reductase B3
NCBI Official Symbol	MSRB3
NCBI Official Synonym Symbols	DFNB74
UniProt Protein Name	Methionine-R-sulfoxide reductase B3
Protein Family	Methionine-R-sulfoxide reductase
UniProt Gene Name	MSRB3
UniProt Synonym Gene Names	MsrB3
UniProt Entry Name	MSRB3_HUMAN
NCBI Protein Information	methionine-R-sulfoxide reductase B3

UniProt Comments for MSRB3	MSRB3: Catalyzes the reduction of free and protein-bound methionine sulfoxide to methionine. Isoform 2 is essential for hearing. Defects in MSRB3 are the cause of deafness autosomal recessive type 74 (DFNB74). A form of non-syndromic sensorineural deafness characterized by prelingual, bilateral, profound hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. A nonsense mutation affecting exclusively mitochondrial isoform 2 is sufficient to produce hearing loss. Belongs to the MsrB Met sulfoxide reductase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Secreted, signal peptide; Secreted; Oxidoreductase; EC 1.8.4.- Chromosomal Location of Human Ortholog: 12q14.3 Cellular Component: mitochondrion; endoplasmic reticulum Molecular Function: zinc ion binding; peptide-methionine (R)-S-oxide reductase activity Biological Process: protein repair; response to oxidative stress Disease: Deafness, Autosomal Recessive 74
Research Articles on MSRB3	**1.** MsrB3 deficiency activates the cell cycle inhibitors p21 and p27.
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