Metallothionein 2 (MT2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Metallothionein 2 (MT2), Polyclonal Antibody
Full Product Name	Biotin-Linked Antibody to Metallothionein 2 (MT2)
Product Gene Name	anti-MT2 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Pig
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against MT2 conjugated to biotin. It has been selected for its ability to recognize MT2 in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Biotin Conjugated Antibody: MT2 (MBS2003161) Immunogen: MT2 (MBS2012291)
Matching Pairs	Unconjugated Antibody: MT2 (MBS2003248) Biotin Conjugated Antibody: MT2 (MBS2003161)
Molecular Weight	6,042 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (56642478..56643409). Location: 16q13
OMIM	156360
3D Structure	ModBase 3D Structure for P02795
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for anti-MT2 antibody	Biotin Antibody
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-MT2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-MT2 antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-MT2 antibody	MBS2003161 is an antibody targeting MT2. Also known as Biotin-Linked Antibody to Metallothionein 2 (MT2). Reactive in Human, Mouse, Pig. Host: Rabbit.

Other Notes	Small volumes of anti-MT2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MT2. It may not necessarily be applicable to this product.

NCBI GI #	1495466
NCBI GeneID	4502
NCBI Accession #	CAA65915.1
UniProt Primary Accession #	P02795
UniProt Secondary Accession #	Q14823; Q2HXR9; Q53XT9
UniProt Related Accession #	P02795
NCBI Official Full Name	Metallothionein 2
NCBI Official Synonym Full Names	metallothionein 2A
NCBI Official Symbol	MT2A
NCBI Official Synonym Symbols	MT2
UniProt Protein Name	Metallothionein-2
UniProt Synonym Protein Names	Metallothionein-2A; Metallothionein-II
Protein Family	Metallothionein
UniProt Gene Name	MT2A
UniProt Synonym Gene Names	CES1; MT2; MT-2; MT-II
UniProt Entry Name	MT2_HUMAN
NCBI Protein Information	metallothionein-2; MT-2; MT-II; metallothionein-2A; metallothionein-II
UniProt Comments for MT2	MT2A: Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids. Belongs to the metallothionein superfamily. Type 1 family. Protein type: Carrier Chromosomal Location of Human Ortholog: 16q13 Cellular Component: perinuclear region of cytoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein binding; zinc ion binding; drug binding Biological Process: cellular copper ion homeostasis; cytokine and chemokine mediated signaling pathway; negative regulation of growth
Research Articles on MT2	**1.** Cotreatment with aryl hydrocarbon receptor agonist and dexamethasone enhances human MT2A gene expression.
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