MT3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MT3, Monoclonal Antibody
Full Product Name	MT3 (Metallothionein 3, GIF, GIFB, GRIF) (APC)
Product Gene Name	anti-MT3 antibody
Product Synonym Names	Metallothionein 3; GIF; GIFB; GRIF
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1F11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes MT3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	MT3 (AAH13081, 1aa-68aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDPETCPCPSGGSCTCADSCKCEGCKCTSCKKSCCSCCPAECEKCAKDCVCKGGEAAEAEAEKCSCCQ
Conjugate	APC
Product Categories/Family for anti-MT3 antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-MT3 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MT3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MT3 antibody	MBS6170256 is an antibody targeting MT3. Also known as MT3 (Metallothionein 3, GIF, GIFB, GRIF) (APC). Host: Mouse. Mouse monoclonal antibody raised against a full-length recombinant MT3.
Other Notes	Small volumes of anti-MT3 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 MT3. It may not necessarily be applicable to this product.

NCBI GI #	15341818
NCBI GeneID	4504
NCBI Accession #	AAH13081
UniProt Related Accession #	P25713

NCBI Official Full Name	Metallothionein 3
NCBI Official Synonym Full Names	metallothionein 3
NCBI Official Symbol	MT3
NCBI Official Synonym Symbols	GIF; GIFB; GRIF; ZnMT3
Protein Family	Metallothionein
NCBI Protein Information	metallothionein-3
NCBI Summary for MT3	This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. This gene family member displays tissue-specific expression, and contains a threonine insert near its N-terminus and a glutamate-rich hexapeptide insert near its C-terminus relative to the proteins encoded by other gene family members. It plays an important role in zinc and copper homeostasis, and is induced under hypoxic conditions. The encoded protein is a growth inhibitory factor, and reduced levels of the protein are observed in the brains of individuals with some metal-linked neurodegenerative disorders such as Alzheimer's disease. [provided by RefSeq, Sep 2017]
Research Articles on MT3	**1.** We have demonstrated the relationship between MT-3 and senescence-induced oncogene genes and some other genes relevant to cell fate (glutathione S-transferase M3, caspase 4 and DNAJB6) and a significant proportion of MT-3 on cisplatin resistance. High levels of MT-3 in high-risk neuroblastoma could be one of the causes of frequent relapses in this tumor.
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