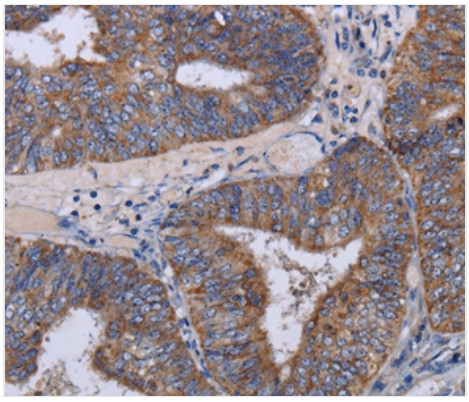
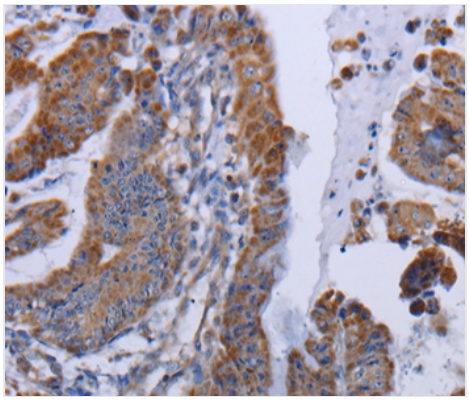
MT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MT3, Polyclonal Antibody
Full Product Name	MT3 Antibody
Product Gene Name	anti-MT3 antibody
Product Synonym Names	GIF; GIFB; GRIF; ZnMT3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	2.1 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total MT3 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	6,927 Da
OMIM	139255
3D Structure	ModBase 3D Structure for P25713
Immunogen Type	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	MT3
Product Categories/Family for anti-MT3 antibody	Total protein Ab
Applications Tested/Suitable for anti-MT3 antibody	Immunohistochemistry (IHC)
Application Notes for anti-MT3 antibody	Immunohistochemistry: 1:50-1:200
Related Product Information for anti-MT3 antibody	Metallothionein (MT) is a sulfhydryl- and cysteine-rich protein found in micro-organisms, plants and all invertebrate and vertebrate animals. Metallothioneins are a group of ubiquitous low-molecular-weight proteins that have functional roles in cell growth, repair and differentiation. Metallothionein are implicated primarily in metal ion detoxification as they are essential for the protection of cells against the toxicity of cadmium, mercury and copper. Metallothioneins are known to be broadly expressed in heart, liver, kidney, breast and testis tissue. Metallothionein 3, also known as MT-3 or GIFB (growth inhibitory factor), is a 68 amino acid protein that belongs to the type 1 family and Metallothionein superfamily. While highly expressed in astrocytes of the normal human brain, Metallothionein 3 expression is reduced in the brains of patients with Alzheimer disease.
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.
Searchable Terms for MT3 purchase	MBS9405922 is an antibody targeting MT3. Also known as MT3 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-MT3 antibody
Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue using at dilution 1/50.



Immunohistochemistry (IHC) of anti-MT3 antibody
Immunohistochemical analysis of paraffin-embedded Human esophagus cancer tissue using at dilution 1/50.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MT3. It may not necessarily be applicable to this product.

NCBI GI #	5174762
NCBI GeneID	4504
NCBI Accession #	NP_005945.1
UniProt Primary Accession #	P25713
UniProt Secondary Accession #	Q2V574
UniProt Related Accession #	P25713
GenBank Nucleotide #	NM_005954.2
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
UniProt Protein Name	Metallothionein-3
UniProt Synonym Protein Names	GIFB; GIF; Growth inhibitory factor; Metallothionein-III; MT-III
Protein Family	Metallothionein
UniProt Gene Name	MT3
UniProt Synonym Gene Names	MT-3; GIF; MT-III
UniProt Entry Name	MT3_HUMAN
NCBI Protein Information	metallothionein-3

UniProt Comments for MT3	MT3: Binds heavy metals. Contains three zinc and three copper atoms per polypeptide chain and only a negligible amount of cadmium. Inhibits survival and neurite formation of cortical neurons in vitro. Belongs to the metallothionein superfamily. Type 1 family. Chromosomal Location of Human Ortholog: 16q13 Cellular Component: synaptic vesicle; perinuclear region of cytoplasm; cytoplasm; inclusion body; intracellular Molecular Function: antioxidant activity; protein binding; copper ion binding; zinc ion binding; caspase inhibitor activity; drug binding; cadmium ion binding; protein kinase activator activity Biological Process: positive regulation of catalytic activity; negative regulation of autophagy; removal of superoxide radicals; positive regulation of transcription, DNA-dependent; negative regulation of axon extension; negative regulation of caspase activity; positive regulation of vascular endothelial growth factor receptor signaling pathway; zinc ion homeostasis; cadmium ion homeostasis; cellular lipid catabolic process; histone modification; protein kinase B signaling cascade; negative regulation of neuron apoptosis; cholesterol catabolic process; regulation of response to food; protein stabilization; activation of protein kinase B; cellular zinc ion homeostasis; zinc ion transport; regulation of protein amino acid glycosylation; leptin-mediated signaling pathway; astrocyte development; cell proliferation; cellular metal ion homeostasis; protein import into nucleus, translocation; negative regulation of oxidoreductase activity; response to hypoxia; energy reserve metabolic process; negative regulation of cell growth; positive regulation of protein amino acid phosphorylation; negative regulation of transcription, DNA-dependent; negative regulation of apoptosis
Research Articles on MT3	**1.** The presence of MT-3 in the zona glomerulosa of pathological adrenal cortex may imply a role in the pathophysiology of aldosterone-producing tissues.
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