

## Metallothionein Monoclonal Antibody (UC1MT)

Catalog Number MA1-25479

Product Data Sheet

Details		Species Reactivity	
Size	50 µg	Tested species reactivity	Equine, Fish, Human, Mouse, Rabbit, Rat
Host / Isotype	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal	Immunohistochemistry (IHC)	Assay Dependent
Type	Antibody	Western Blot (WB)	1 µg/ml
Clone	UC1MT	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Full length protein from cross linked rabbit liver MT1 and MT2.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1mg/ml		
Purification	Protein G		
Storage Buffer	PBS, pH 7.2, with 50% glycerol, PMSF		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

### Product Specific Information

MA1-25479 detects Metallothionein from human, mouse, fish, equine, rat, and rabbit samples.

MA1-25479 has been successfully used in Western blot and Immunohistochemistry procedures. A band of approximately 15 kDa is detected.

The MA1-25479 immunogen is full length protein from cross linked rabbit liver MT1 and MT2.

### Background/Target Information

Metallothioneins (MTs) are a family of low molecular weight, heavy metal-binding proteins characterized by a high cysteine content and lack of aromatic amino acids. MTs bind 7 to 12 heavy metal atoms per molecule of protein. They are ubiquitous in the animal and plant kingdoms and are also found in prokaryotes. In mammals, the cysteine residues are absolutely conserved and serve to coordinate heavy metal atoms such as zinc, cadmium, and copper via mercaptide linkages.

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