



Code No.KA009-01

For research use only

## Heavy metal detoxification and Oxidative stress Anti Rabbit Metallothionein Monoclonal Antibody (Clone No.1A12) Biotin conjugated

Metallothinein(MT), a cysteine-rich(30%), metal-binding protein, exists in most tissues and is easily induced by many stimuli. It's multifunction roles in the body have been proposed such as a chelator to harmful heavy metals and excessive essential metals, a scavenger to various radicals and active oxygen species, and a regulator in the cell proliferation process.

This product consists of protein G purified mouse monoclonal antibody against rabbit MT-2 and can be used for immunoblotting. This antibody reacts with rabbit MT-1,2, human MT-1, mouse MT-1 and rat MT-1.

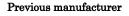
Package Size	$100 \mu \mathrm{g} (100 \mu \mathrm{L/vial})$
Format	Mouse monoclonal antibody 1.0mg/mL
Buffer	2% Block Ace as a stabilizer, containing 0.1% proclin as a bacteriostat
Storage	Store below $-20^{\circ}$ C.
	Once thawed, store at 4°C. Repeated freeze-thaw cycles should be avoided.
Purification method	The splenic lymphocytes from BALB/c mouse, immunized with rabbit
	metallothionein-2, were fused to myeloma P3U1 cells. The cell line (1A12) with
	positive reaction was grown in ascitic fluid of BALB/c mouse, from which the
	antibody was purified by Protein G affinity chromatography.
Working dilution for immunoblotting: 0.01 $\mu$ g/mL	
Specificity	This antibody reacts with rabbit MT-1,2, human MT-1, mouse MT-1 and rat MT-1

## [References]

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- 2. Mullins JE, et al.(1998) : Immunohistochemical Detection of Metallothionein in Liver, Duodenum and Kidney after Dietary Copper-Overload in Rats. *Histol Histopathol*.vol.13, No.3, 627-633
- **3.** Kikuchi Y, et al.(1993) : Induction of Metallothionein in a Human Astrocytoma Cell Line by Interleukin-1 and heavy Metals . *FFBS Lett.*, vol.317,No1-2, 22-26
- 4. M.Nordberg.(1998): Metallothionein: historical review and state of knowledge. Talanta 46(2), 243-254
- 5. Akintola DF, et al.(1995) : Development of an enzyme-linked immunosorbent assay for human metallothionein-1 in plasma and urine. J.Lab.126(2) 119-127

## Manufacturer







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