



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

Metallothionein(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 μ g (100 μ 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°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 μ g/mL
Specificity	This antibody reacts with rabbit MT-1,2, human MT-1, mouse MT-1 and rat MT-1

【References】

1. Yasutake A, et al.(1998) : Induction by Mercury Compounds of Brain Metallothionein in Rats:Hgo Exposure Induces Long-lived Brain Metallothionein. *Arch Toxicol*.vol.72,No4, 187-191
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



Medicinal Chemistry Pharmaceutical Co., Ltd.

Kobe Research Institute

7-1-14 Minatojimaminami-machi, Chuo-ku, Kobe, Japan 650-0047

Telephone: +81-78-945-7075 FAX:+81-78-306-0694

URL:<https://soyaku.co.jp/english/> tech-kobe@soyaku.co.jp

Previous manufacturer



Trans Genic Inc.