ARG42474
anti-Metallothionein antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Metallothionein.
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Specificity	This antibody might also react to Metallothionein-1 and Metallothionein-2 proteins based on the sequence homology analysis.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Metallothionein
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-61 of Human Metallothionein 2A. (NP_005944.1).
Conjugation	Un-conjugated
Alternate Names	Metallothionein-2A; MT2; Metallothionein-II; MT-2; Metallothionein-2; MT-II; Metallothionein 1; MT-1; Metallothionein family proteins

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa
Observed Size	15 kDa

Properties

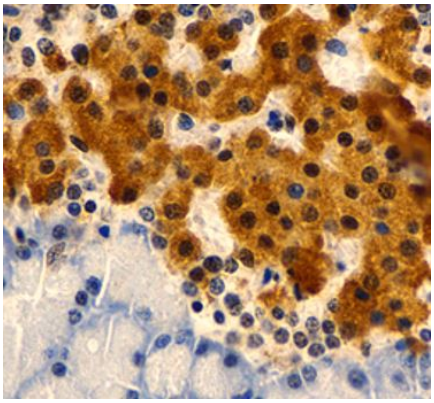
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

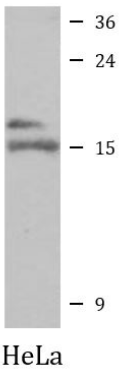
Gene Symbol	MT2; MT1
Gene Full Name	metallothionein
Background	This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions, altering the intracellular concentration of heavy metals in the cell. These proteins act as anti-oxidants, protect against hydroxyl free radicals, are important in homeostatic control of metal in the cell, and play a role in detoxification of heavy metals. The encoded protein interacts with the protein encoded by the homeobox containing 1 gene in some cell types, controlling intracellular zinc levels, affecting apoptotic and autophagy pathways. Some polymorphisms in this gene are associated with an increased risk of cancer. [provided by RefSeq, Sep 2017]
Function	Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids. [UniProt]
Calculated Mw	6 kDa

Images



ARG42474 anti-Metallothionein antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat pancreas tissue stained with ARG42474 anti-Metallothionein antibody at 1:200 dilution.



ARG42474 anti-Metallothionein antibody WB image

Western blot: 25 µg of HeLa cell lysate stained with ARG42474 anti-Metallothionein antibody at 1:1000 dilution.