Product datasheet

Anti-Metallothionein antibody ab36882

Overview

Product name: Anti-Metallothionein antibody
Description: Rabbit polyclonal to Metallothionein
Host species: Rabbit
Tested applications: Suitable for: ELISA, WB
Species reactivity: Reacts with: Atlantic cod
Immunogen: Metallothionein purified from liver of Atlantic cod (Gadus morhua).
Positive control: WB: Liver S9 fractions.
General notes: The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.40
Preservative: 0.1% Sodium azide
 Constituents: 1.64% Sodium phosphate, 1% BSA, 0.87% Sodium chloride
Purity: Protein G purified
Clonality: Polyclonal
Isotype: IgG

Applications

The Abpromise guarantee: Our Abpromise guarantee covers the use of ab36882 in the following tested applications.
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.

Sequence similarities
Belongs to the metallothionein superfamily. Type 1 family.

Domain
Class I metallothioneins contain 2 metal-binding domains: four divalent ions are chelated within cluster A of the alpha domain and are coordinated via cysteinyl thiolate bridges to 11 cysteine ligands. Cluster B, the corresponding region within the beta domain, can ligate three divalent ions to 9 cysteines.

Images
Ab36882, at a concentration of 1 µg/ml, staining Metallothionein by ELISA. Coating buffer was used as a negative control.
All lanes: Anti-Metallothionein antibody (ab36882) at 1/500 dilution

Lane 2: Purified metallothionein from Atlantic cod at 0.25 µg
Lane 3: Liver S9 fractions from cadmium treated Atlantic cod at 2.5 µg
Lane 4: Liver S9 fractions from cadmium treated Whiting at 2.5 µg
Lane 5: Liver S9 fractions from cadmium treated Yellow gurnard at 2.5 µg
Lane 6: Liver S9 fractions from cadmium treated Flounder at 2.5 µg

Predicted band size: 6 kDa
Observed band size: 15 kDa

Lane 1 represents the molecular weight standard.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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