

## Product datasheet

# Anti-Metallothionein antibody ab36882

[2 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-Metallothionein antibody
<b>Description</b>	Rabbit polyclonal to Metallothionein
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Atlantic cod
<b>Immunogen</b>	Metallothionein purified from liver of Atlantic cod ( <i>Gadus morhua</i> ).
<b>Positive control</b>	WB: Liver S9 fractions.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

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

### Applications

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

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/50 - 1/1000. Not recommended for coating due to the BSA content.
WB		1/50 - 1/1000. Detects a band of approximately 15 kDa (predicted molecular weight: 6 kDa).

## Target

### 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.

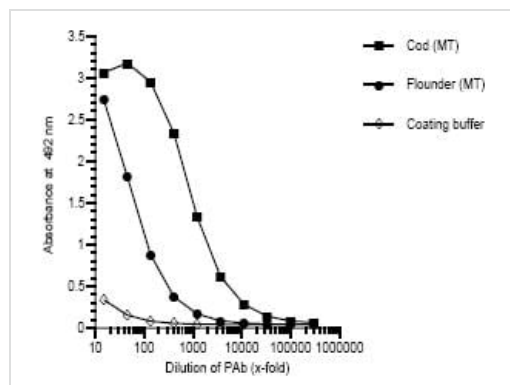
### Sequence similarities

Belongs to the metallothionein superfamily. Type 1 family.

### Domain

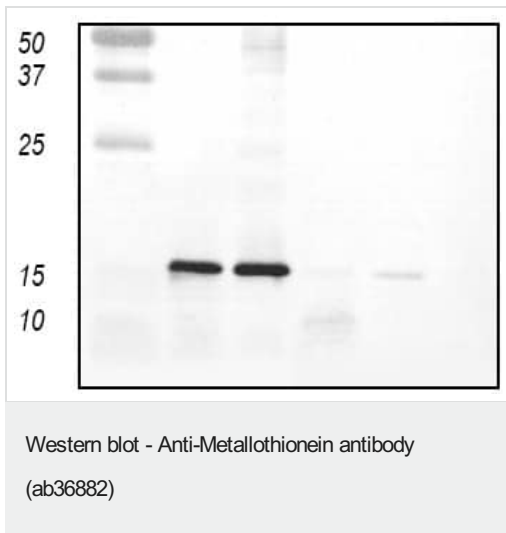
Class I metallothioneins contain 2 metal-binding domains: four divalent ions are chelated within cluster A of the alpha domain and are coordinated via cysteinyl thiolate bridges to 11 cysteine ligands. Cluster B, the corresponding region within the beta domain, can ligate three divalent ions to 9 cysteines.

## Images



ELISA - Anti-Metallothionein antibody (ab36882)

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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