abcam

Product datasheet

Anti-Metallothionein antibody ab36882

1 References 2 Images

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 (Gadus morhua) and with metallothionein from a wide variety of different species including whiting (Merlangius merlangus), yellow gurnard (Trigla lucerna) and flounder (Platichthys flesus) as well as some cypriniform, siluriform, salmoniform, perciform and rajiform species.
Immunogen	Metallothionein purified from liver of Atlantic cod (Gadus morhua).
Positive control	WB: Liver S9 fractions.

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

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.

Application	Abreviews	Notes
WB		1/50 - 1/1000. Detects a band of approximately 15 kDa (predicted molecular weight: 6 kDa).

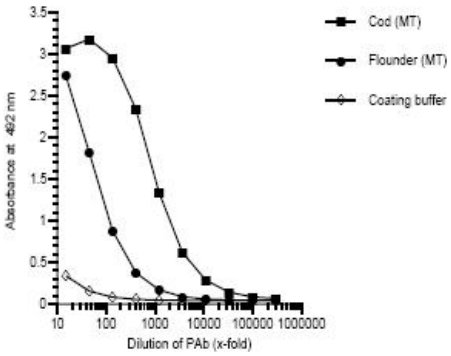
Target

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.

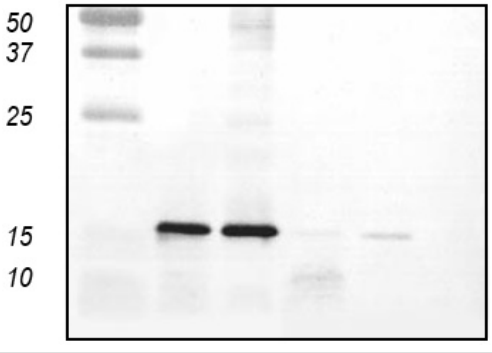
Domain Class I metallothioneins contain 2 metal-binding domains: four divalent ions are chelated within cluster A of the alpha domain and are coordinated via cysteinyl thiolate bridges to 11 cysteine ligands. Cluster B, the corresponding region within the beta domain, can ligate three divalent ions to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



Western blot - Anti-Metallothionein antibody (ab36882)

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
why is the actual band size different from the predicted?

Lane 1 represents the molecular weight standard.

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