Product datasheet

Anti-Metallothionein antibody ab192385

Overview

Product name: Anti-Metallothionein antibody
Description: Rabbit polyclonal to Metallothionein
Host species: Rabbit
Tested applications: Suitable for: IHC-P, IHC-P, WB
Species reactivity: Reacts with: Mouse, Rat, Human
Predicted to work with: Dog, Pig, Cynomolgus monkey, Orangutan
Immunogen: Recombinant full length protein corresponding to Human Metallothionein aa 1-61.
Sequence:
MDPCSCAAGDSCTCAGSCKCKECKCTSCKKSCCS
CCPVGCAKCAQGCIC KGASDKCSCCA
Database link: P02795

Properties

Form: Liquid
Storage buffer: Preservative: 0.1% Sodium azide
Constituents: 49% PBS, 50% Glycerol
Purity: Immunogen affinity purified
Purification notes: ab192385 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab192385 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**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**

ab192385 staining Metallothionein in Mouse colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with ab64226 for 10 minutes at room temperature; antigen retrieval was by heat mediation. Samples were incubated with primary antibody (1/150) for 30 minutes. An undiluted HRP-conjugated Goat polyclonal (1/250) was used as the secondary antibody.
Western blot analysis of extracts of HeLa cells using ab192385.

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