

Anti-Gamma-ECS [11H7.C1.A2]

Catalogue number: 153932

Sub-type:

Images:

Contributor

Inventor: Richard Meager

Institute: University of Georgia

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Gamma-ECS [11H7.C1.A2]

Alternate name: γ-ECS

Class: Monoclonal

Conjugate: Unconjugated

Description: Together with glutathione synthetase and phytochelatin synthetase, gamma-glutamyl Cys synthetase (γ-ECS) is an enzyme involved in, and required for, synthesizing phytochelatins (PC). γ-ECS is involved in the biosynthesis of Glutathione. PC are multidentate ligands that are able to form chelates with thio-reactive, soft metal cations such as Cd²⁺, Hg²⁺, and at least one oxoanion (AsO₃³⁻). In certain plants, deficiency of such enzymes leads to low tolerance to metal contamination while mutants over-expressing them are highly tolerant to metal contamination and may be used in phyto-remediation of heavy metals.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG2a

Reactivity: E.coli ; Plant ; Saccharomyces

Selectivity:

Host: Mouse

Immunogen: Synthetic peptide

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Gamma-Glutamylcysteine Synthetase

Target alternate names:

Target background: Together with glutathione synthetase and phytochelatin synthetase, gamma-glutamyl Cys synthetase (γ -ECS) is an enzyme involved in, and required for, synthesizing phytochelatins (PC). γ -ECS is involved in the biosynthesis of Glutathione. PC are multidentate ligands that are able to form chelates with thio-reactive, γ -ECS metal cations such as Cd^{2+} , Hg^{2+} , and at least one oxoanion (AsO_3^{3-}). In certain plants, deficiency of such enzymes leads to low tolerance to metal contamination while mutants over-expressing them are highly tolerant to metal contamination and may be used in phyto-remediation of heavy metals.

Molecular weight:

IC₅₀:

Applications

Application: ELISA ; IF ; WB

Application notes:

Handling

Format: Liquid

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Hall et al. 1991. Hybridoma. 10(5):575-82. PMID: 1804771. ; Monoclonal antibody for avian thymic hormone.

CancerTools.org