Anti-Phospho Endosulfine [DF1.1]

Catalogue number: 153180
Sub-type: Primary antibody
Images:

Contributor

Inventor: Julian Gannon
Institute: Cancer Research UK, London Research Institute: Clare Hall Laboratories
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Phospho Endosulfine [DF1.1]

Alternate name:

Class: Monoclonal
Conjugate: Unconjugated
Description: Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-67 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase. Also acts as a stimulator of insulin secretion by interacting with sulfonylurea receptor (ABCC8), thereby preventing sulfonylurea from binding to its receptor and reducing K(ATP) channel currents.Endosulfine is highly phosphorylated in Xenopus CSF egg extracts but de-phosphorylated when the eggs enter interphase.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity: Xenopus laevis
Selectivity:
Host: Mouse
Immunogen: Synthetic peptide - KGQKYFD-Sp-GDYNMAK
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:

Formulation:
Recommended controls: Xenopus CSF (cytostatic factor extract)
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Phospho Endosulfine

Target alternate names:

Target background: Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-67 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase. Also acts as a stimulator of insulin secretion by interacting with sulfonylurea receptor (ABCC8), thereby preventing sulfonylurea from binding to its receptor and reducing K(ATP) channel currents.Endosulfine is highly phosphorylated in Xenopus CSF egg extracts but de-phosphorylated when the eggs enter interphase.

Molecular weight: 14 kDa

Ic50:

Applications

Application: WB
Application notes:

Handling

Format: Liquid
Concentration: 0.9-1.1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions: -15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: