Cig2 Antibody [clone 3A11/5] (V8291)

Catalog No.	Formulation	Size
V8291-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8291-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8291SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Schizosaccharomyces pombe
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	3A11/5
Purity	Protein G affinity chromatography
UniProt	P36630
Applications	ELISA (order BSA-free format for coating) Western blot: 1-2ug/ml
Limitations	This Cig2 antibody is available for research use only.



Description

Cig2 is a cyclin that functions as the catalytic subunit of cyclin-dependent kinases (Cdks) in the fission yeast

Schizosaccharomyces pombe. It is a B-type, S phase cyclin that is required for both the G1/S and G2/M cell cycle transitions and is expressed in a sharp spike that peaks during the G1/S period. Cig2 binds to Cdc2 (Cdk), and the resulting Cdc2/Cig2 complex controls the G1/S transition of the cell cycle. Disruption of Cig2 delays the onset of mitosis. The expression of the Cig2 gene is dependent on Mlu1-binding factor (MBF), and the protein is destroyed during anaphase by the APC/cyclosome (APC/C) and Skp1/Cullin-1/F-box (SCF), thereby ensuring the spike expression pattern of Cig2. SCF regulates Cig2 levels in a dual manner, transcriptionally and post-translationally, while APC/C only destroys the protein.

Application Notes

Optimal dilution of the Cig2 antibody should be determined by the researcher.

Immunogen

Bacterial S. pombe Cig2 purified protein was used as the immunogen for the Cig2 antibody.

Storage

Store the Cig2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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