

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

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Availability	1-3 business days
Species Reactivity	Schizosaccharomyces pombe
Format	Purified
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 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).