

Datasheet: AHP2407

Description:	RABBIT ANTI Cdc2
Specificity:	Cdc2
Other names:	CDK1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	■			1/400

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Antiserum Preparation	Antiserum to Cdc2 was raised by repeated immunisation of rabbits with highly purified antigen
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃) 0.2% Gelatin
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml
Immunogen	Peptide mapping to the carboxy terminus of human Cdc2
External Database Links	UniProt: P06493 Related reagents

Entrez Gene:[983](#) CDK1 [Related reagents](#)

Synonyms	CDC2
Specificity	Rabbit anti Cdc2 antibody recognizes cell division control protein 2 homolog (Cdc2) also known as cyclin-dependent kinase 1 (CDK1) and p34 protein kinase. Cdc2, a serine/threonine kinase, plays a crucial role in regulation of the eukaryotic cell cycle by phosphorylating proteins involved in DNA replication and other important cell cycle progression processes (Enserink and Kolodner 2010). Binding of cyclins to Cdc2 is essential for its regulation, and the kinase only becomes activated once bound to cyclins (Enserink and Kolodner 2010). Cyclin binding has also been reported to play a role in substrate recruitment (Enserink and Kolodner 2010). Cdc2 activity is highly regulated through phosphorylation by the serine/threonine protein kinase Wee1 (Harvey et al. 2005). This phosphorylation results in Cdc2 inactivation and consequently, cell cycle arrest at the G2/M transition stage (Harvey et al. 2005). Wee1 phosphorylation is counteracted by the Cdc25 phosphatase, which dephosphorylates Cdc2 thereby enabling entry into mitosis (Harvey et al. 2005).
Western Blotting	Rabbit anti Cdc2 recognizes a band of approximately 34 kDa when run under reducing conditions
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20341 available at: 20341: https://www.bio-rad-antibodies.com/uploads/MSDS/20341.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin , FITC , HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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