BOSTER BIOLOGICAL TECHNOLOGY Co.,Ltd.
3942 B Valley Ave, Pleasanton, CA, 94566
Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

Polyclonal Anti-CDC20 Antibody

Catalog Number: PA2124

Description

Gene Name	cell division cycle 20
Recommended Protein Name	Cell division cycle protein 20 homolog
Lot No.	0211312c042453
Size	100μg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	**Reacts with:** rat **Predicted to work with**: mouse
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse CDC20(20-36aa IPNAPVARWQRKAKEAT), different from the related rat sequence by one amino acid, and from the related human sequence by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5μg/ml	Rat	Ms	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage: At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time.
Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

The cell-division cycle protein 20, also known as p55CDC, is an essential regulator of cell division that is encoded by the CDC20 gene in humans. The chromosomal assignment of human CDC20 is 1p34.2. CDC20 is a component of the mammalian cell cycle mechanism. CDC20 appears to act as a regulatory protein interacting with many other proteins at multiple points in the cell cycle. This gene's most important function is to activate the anaphase promoting complex (APC), a large 11-13 subunit complex that initiates chromatid separation and entrance into anaphase.

Reference

1. Herzog, F., Primorac, I., Dube, P., Lenart, P., Sander, B., Mechtler, K., Stark, H., Peters, J.-M. Structure of the anaphase-promoting complex/cyclosome interacting with a mitotic checkpoint complex. Science 323: 1477-1481, 2009.
2. Morris, M. C., Kaiser, P., Rudyak, S., Baskerville, C., Watson, M. H., Reed, S. I. Cks1-dependent proteasome recruitment and activation of CDC20 transcription in budding yeast. Nature 423: 1009-1013, 2003.
3. Reddy, S. K., Rape, M., Margansky, W. A., Kirschner, M. W. Ubiquitination by the anaphase-promoting complex drives spindle checkpoint inactivation. Nature 446: 921-925, 2007.
4. Yang, Y., Kim, A. H., Yamada, T., Wu, B., Bilimoria, P. M., Ikeuchi, Y., de la Iglesia, N., Shen, J., Bonni, A. A Cdc20-APC ubiquitin signaling pathway regulates presynaptic differentiation. Science 326: 575-578, 2009.