10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Cdc20 Polyclonal Antibody
Catalog # AP68974

Specification

Cdc20 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q12834
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

Cdc20 Polyclonal Antibody - Additional Information

Gene ID 991

Other Names
CDC20; Cell division cycle protein 20 homolog; p55CDC

Dilution
WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
IHC-P~~N/A

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

Cdc20 Polyclonal Antibody - Protein Information

Name CDC20

Function
Substrate-specific adapter of the anaphase promoting complex/cyclosome (APC/C) complex that confers substrate specificity by binding to substrates and targeting them to the APC/C complex for ubiquitination and degradation (PubMed:9734353, PubMed:27030811, PubMed:29343641). Recognizes and binds the destruction box (D box) on protein substrates (PubMed:29343641). Involved in the metaphase/anaphase transition of cell cycle (PubMed:32666501). Is regulated by MAD2L1: in metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is active in degrading substrates (PubMed:9811605, PubMed:9637688). The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active

zone to the presynaptic membrane in postmitotic neurons (By similarity). CDC20-APC/C-induced degradation of NEUROD2 induces presynaptic differentiation (By similarity). The CDC20- APC/C complex promotes proper dilation formation and radial migration by degrading CCDC41 (By similarity).

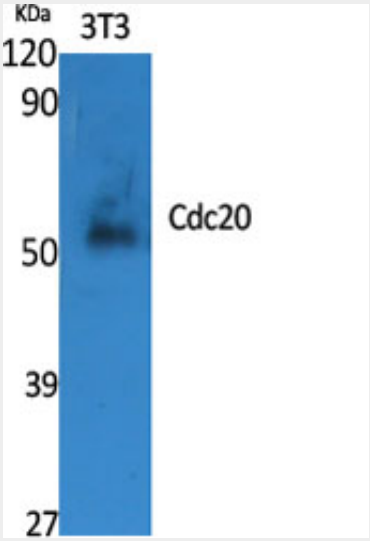
Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole

Cdc20 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Cdc20 Polyclonal Antibody - Images



Western Blot analysis of various cells using Cdc20 Polyclonal Antibody diluted at 1□2000

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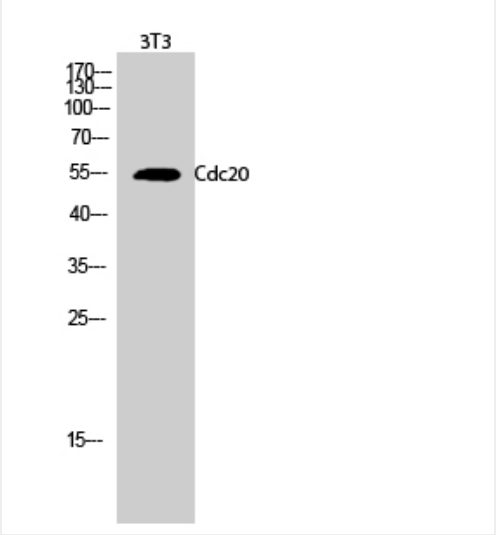
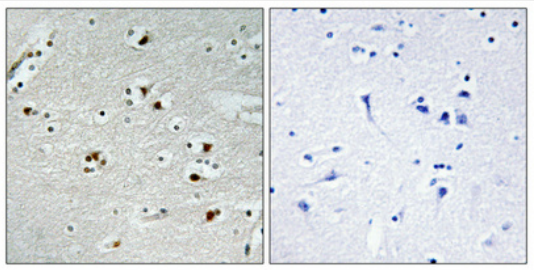


Western Blot analysis of 3T3 cells using Cdc20 Polyclonal Antibody diluted at 1□2000



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Cdc20 Polyclonal Antibody - Background

Required for full ubiquitin ligase activity of the anaphase promoting complex/cyclosome (APC/C) and may confer substrate specificity upon the complex. Is regulated by MAD2L1: in metaphase the MAD2L1-CDC20-APC/C ternary complex is inactive and in anaphase the CDC20-APC/C binary complex is active in degrading substrates. The CDC20-APC/C complex positively regulates the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. CDC20-APC/C-induced degradation of NEUROD2 induces presynaptic differentiation.