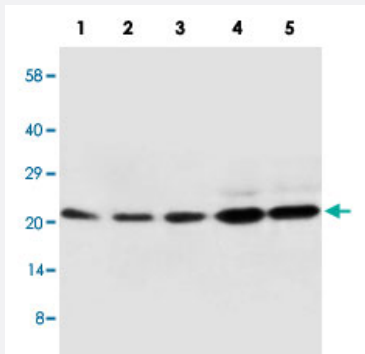


CDC42 polyclonal antibody

Catalog # PAB19100 Size 100 ug

Applications

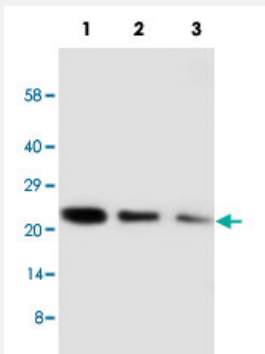


Western Blot

Western blot analysis of tissue and whole cell extracts with CDC42 polyclonal antibody (Cat # PAB19100).

Lane 1 : rat brain.

Lane 2 : MCF-7. Lane 3 : HeLa. Lane 4 : SMMC. Lane 5 : U87.



Western Blot (Recombinant protein)

Western blot analysis of CDC42 recombinant protein with CDC42 polyclonal antibody (Cat # PAB19100).

Lane 1 : 10 ng.

Lane 2 : 5 ng.

Lane 3 : 2.5 ng.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CDC42.
Immunogen	A synthetic peptide corresponding to internal region of human CDC42.
Host	Rabbit
Reactivity	Bovine, Human, Mouse, Rat
Form	Lyophilized
Purification	Immunoaffinity purification

Isotype	IgG
Recommend Usage	Western Blot (0.1-0.5 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of tissue and whole cell extracts with CDC42 polyclonal antibody (Cat # PAB19100).

Lane 1 : rat brain.

Lane 2 : MCF-7. Lane 3 : HeLa. Lane 4 : SMMC. Lane 5 : U87.

- Western Blot (Recombinant protein)

Western blot analysis of CDC42 recombinant protein with CDC42 polyclonal antibody (Cat # PAB19100).

Lane 1 : 10 ng.

Lane 2 : 5 ng.

Lane 3 : 2.5 ng.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Gene Info — CDC42

Entrez GeneID	998
Gene Name	CDC42
Gene Alias	CDC42Hs, G25K
Gene Description	cell division cycle 42 (GTP binding protein, 25kDa)
Omim ID	116952
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to *Saccharomyces cerevisiae* Cdc 42, and is able to complement the yeast *cdc42-1* mutant. The product of oncogene *Dbl* was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq]

Other Designations

GTP-binding protein, 25kD|OTTHUMP00000002834|OTTHUMP00000002926|cell division cycle 42|cell division cycle 42 (GTP binding protein, 25kD)|cell division cycle 42 (GTP-binding protein, 25kD)|dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein, 25kD))|d

Publication Reference

- [Eya1 protein phosphatase regulates tight junction formation in lung distal epithelium.](#)

El-Hashash AH, Turcatel G, Varma S, Berika M, Al Alam D, Warburton D.

Journal of Cell Science 2012 Jun; 125(Pt 17):4036.

Application: WB, Mouse, MLE15 cells

Pathway

- [Adherens junction](#)
- [Axon guidance](#)
- [Chemokine signaling pathway](#)
- [Endocytosis](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)

- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)
- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)
- [Tight junction](#)
- [VEGF signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [HIV Infections](#)
- [Multiple Sclerosis](#)
- [Parkinson disease](#)