

## Anti-CDC42 Polyclonal Antibody

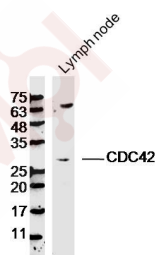
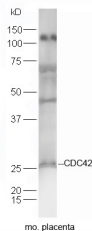
### Product Details

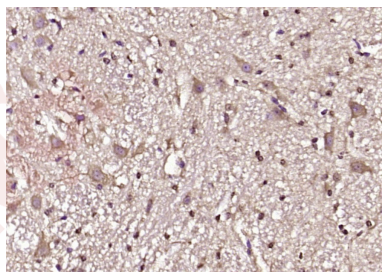
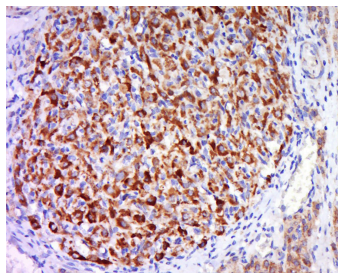
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 25 kDa. Actual: 28 kDa.
Purification:	Protein A purified

### Applications

1. Sample: placenta (Mouse) Lysate at 40  $\mu$ g  
Primary: Anti-CDC42 (TMAB-00401) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 25 kDa  
Observed band size: 25 kDa
2. Sample: Lymphnode (Mouse) Lysate at 40  $\mu$ g  
Primary: Anti-CDC42 (TMAB-00401) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 25 kDa  
Observed band size: 28 kDa
3. Tissue/cell: rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;  
Incubation: Anti-CDC42 Polyclonal Antibody, Unconjugated (TMAB-00401) 1:600, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
4. Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (CDC42) Polyclonal Antibody, Unconjugated (TMAB-00401) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human CDC42

Antigen Species: Human

Gene ID: 998

Uniprot ID: P60953

Synonyms: CDC42Hs;G25K;cell division cycle 42

Biology Area: Ras family,Cytokinesis,Kinases/Phosphatases,Regulation,Small G Proteins

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### Research Background

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. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20. [provided by RefSeq, Apr 2013]

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