bs-3555R **[Primary Antibody]**

CDC42 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 998 **SWISS:** P60953

Target: CDC42

Immunogen: KLH conjugated synthetic peptide derived from human CDC42: 101-191/191.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

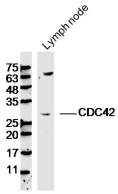
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)

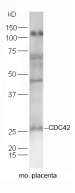
Predicted MW.: 25 kDa

Subcellular Location: Cytoplasm

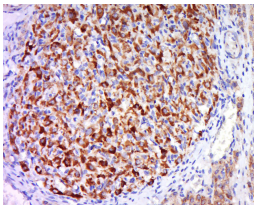
VALIDATION IMAGES



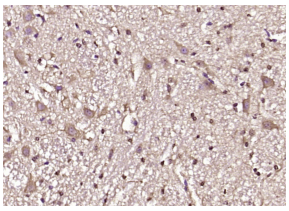
Sample: Lymph node (Mouse) Lysate at 40 ug
Primary: Anti-CDC42 (bs-3555R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD
Observed band size: 28 kD



Sample: placenta (Mouse) Lysate at 40 ug
Primary: Anti-CDC42 (bs-3555R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD
Observed band size: 25 kD



Tissue/cell: rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CDC42 Polyclonal Antibody, Unconjugated(bs-3555R) 1:600, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat

cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CDC42) Polyclonal Antibody, Unconjugated (bs-3555R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=6.208]** Yao Wang. et al. AKBA Promotes Axonal Regeneration via RhoA/Rictor to Repair Damaged Sciatic Nerve. INT J MOL SCI. 2022 Jan;23(24):15903 WB ;Rat. 36555556
- **[IF=3.647]** Xu Li. et al. Gonadotropin-inhibiting hormone promotes apoptosis of bovine ovary granulosa cells. Life Sci. 2021 Apr;270:119063 WB ;Bovine. 33460664
- **[IF=3.448]** Yu C et al. LncRNA AC009022. 1 enhances colorectal cancer cells proliferation, migration, and invasion by promoting ACTR3B expression via suppressing miR‐497‐5p. J Cell Biochem. 2019 Oct 21. WB ;Human. 31637768
- **[IF=2.049]** Lei Q et al. HEV ORF3 down‐regulates CD14 and CD64 to impair macrophages phagocytosis through inhibiting JAK/STAT pathway. Journal of Medical Virology. 2019. WB ;Human. doi:10.1002/jmv.25400