

CCDC88A polyclonal antibody

Catalog: BS61797

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

The actin-binding protein girdin (CCDC88A, GIV) is a non-receptor guanine nucleotide exchange factor (GEF) and part of a scaffold that mediates key signaling pathways during cell migration. Girdin protein structure includes an amino-terminal Hook domain for microtubule interaction, a coiled-coil dimerization domain, a G α binding domain, a PI(4)P-binding domain, and a carboxy-terminal receptor-binding domain within a GEF motif. Akt kinase phosphorylates girdin at Ser1416, which promotes PI(4)P binding, localization of girdin to the membrane leading edge, and regulation of actin organization and cell motility. After growth factor receptor activation, girdin binds both G-protein and receptor to form an activation complex at the receptor cytoplasmic tail. The activation complex enhances receptor autophosphorylation and promotes downstream signaling that results in actin organization and cell migration. An activated growth factor phosphorylates girdin at its carboxy-terminal Tyr1764 and Tyr1798 residues to form an SH2 docking site for PI3K binding. The girdin GEF motif interacts with G α and leads to release of G $\beta\gamma$, resulting in further PI3K activation and the completion of signal transduction from receptor to cytoskeleton. The cytoskeletal reorganization and cell migration properties of girdin are important in regulating several biological processes, including wound healing, angiogenesis, and cancer progression.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 250 kDa

Swiss-Prot:

Q3V6T2

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

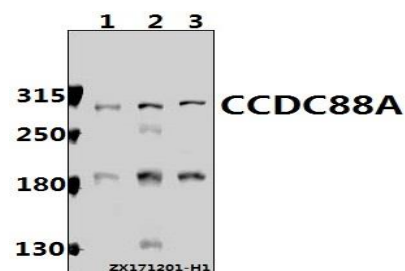
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

CCDC88A pAb detects endogenous levels of CCDC88A protein.

DATA:



Western blot (WB) analysis of CCDC88A pAb at 1:500 dilution

Lane1:K562 whole cell lysate(40ug)

Lane2:CT26 whole cell lysate(40ug)

Lane3:The Testis tissue lysate of Rat(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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