WDR24 polyclonal antibody

Catalog: BS34465 Host: Rabbit Reactivity: Human, Mouse

BackGround:

GATOR2 complex protein WDR24: Catalytic component of the GATOR2 complex, a multiprotein complex that acts as an activator of the amino acid-sensing branch of the mTORC1 signaling pathway . The GATOR2 complex indirectly activates mTORC1 through the inhibition of the GATOR1 subcomplex . GATOR2 probably acts as an E3 ubiquitin-protein ligase toward GATOR1 . In the presence of abundant amino acids, the GATOR2 complex mediates ubiquitination of the NPRL2 core component of the GATOR1 complex, leading to GATOR1 inactivation . In the absence of amino acids, GATOR2 is inhibited, activating the GATOR1 complex . In addition to its role in regulation of the mTORC1 complex, promotes the acidification of lysosomes and facilitates autophagic flux . Within the GATOR2 complex, WDR24 constitutes the catalytic subunit that mediates 'Lys-6'-linked ubiquitination of NPRL2

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~88.2 kDa

Swiss-Prot:

Q96S15

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of WDR24 protein

DATA:

Western blot analysis of CD126 expression in Jurkat (A), MOLT4 (B), Raw264.7 (C), THP1 (D) whole cell lysates.

Immunohistochemical analysis of CD126 staining in human ovarian cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of CD126 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Flow cytometric analysis of Jurkat cells using Anti-CD126 Antibody (green) and negative control (red).

Note:

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

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