



WDR44 polyclonal antibody

Catalog: BS33106

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

WD repeat-containing protein 44: Downstream effector for Rab11 which regulates Rab11 intracellular membrane trafficking functions such as endocytic recycling, intracellular ciliogenesis and protein export. ATK1-mediated phosphorylation of WDR44 induces binding to Rab11 which activates endocytic recycling of transferrin receptor back to the plasma membrane. When bound to Rab11, prevents the formation of the ciliogenic Rab11-Rabin8/RAB3IP-RAB11FIP3 complex, therefore inhibiting preciliary trafficking and ciliogenesis. Participates in neo-synthesized protein export by connecting the endoplasmic reticulum (ER) with the endosomal tubule via direct interactions with the integral ER proteins VAPA or VAPB and the endosomal protein GRAFs (GRAF1/ARHGAP26 or GRAF2/ARHGAP10), which facilitates the transfer of proteins such as E-cadherin, MPP14 and CFTR into a Rab8-Rab10-Rab11-dependent export route.

Product:

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

Molecular Weight:

~101 kDa

Swiss-Prot:

Q5JSH3

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

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:

Recognizes endogenous levels of WDR44 protein

DATA:

Western blot analysis of ARALAR1 expression in COLO205 (A), U251MG (B) whole cell lysates.

Immunohistochemical analysis of ARALAR1 staining in human breast 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 ARALAR1 staining in HepG2 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 °C in a humidified chamber. Cells were washed with PBST and incubated with a 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).

Note:

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

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