HELZ2 polyclonal antibody

Catalog: BS35393 Host: Rabbit Reactivity: Human, Mouse

BackGround:

3'-5' exoribonuclease HELZ2: Multifunctional nuclear protein involved in RNA surveillance, nuclear receptor-mediated transcriptional regulation, and the restriction of mobile genetic elements as part of the innate immune response . Degrades highly structured RNAs through its concerted ATP-dependent RNA helicase and 3' to 5' exoribonuclease activities . Shows a strong preference for pyrimidine over purine residues for its nuclease activity . Acts as a transcriptional coactivator for a number of nuclear receptors including PPARA, PPARG, THRA, THRB and RXRA . In addition, regulates lipid metabolism independently of PPARs by controlling the stability of Apob mRNA, which encodes a protein essential for lipoprotein assembly and secretion . Also contributes to adipocyte differentiation through interactions with the splicing factor proline- and glutamine-rich protein SFPQ and THRAP3

Product:

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

Molecular Weight:

~322 kDa

Swiss-Prot:

Q9BYK8

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of HELZ2 protein

DATA:

Western blot analysis of Ub expression in mouse liver (A), mouse testis (B), rat liver (C), rat testis (D) whole cell lysates.

Immunohistochemical analysis of Ub 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 Ub 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 ℃ in a hidified 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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