COQ2 polyclonal antibody

Catalog: BS33698 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

4-hydroxybenzoate polyprenyltransferase, mitochondrial: Mediates the second step in the final reaction sequence of coenzyme Q (CoQ) biosynthesis . Catalyzes the prenylation of para-hydroxybenzoate (PHB) with an all-trans polyprenyl donor (such as all-trans-decaprenyl diphosphate) . The length of the polyprenyl side chain varies depending on the species, in humans, the side chain is comprised of 10 isoprenyls (decaprenyl) producing CoQ10 (also known as ubiquinone), whereas rodents predominantly generate CoQ9 . However, this specificity is not complete, human tissues have low amounts of CoQ9 and rodent organs contain some CoQ10 . Plays a central role in the biosynthesis of CoQ10 . CoQ10 is a vital molecule that transports electrons from mitochondrial respiratory chain complexes . CoQs also function as cofactors for uncoupling protein and play a role as regulators of the extracellularly-induced ceramide-dependent apoptotic pathway . Regulates...

Product:

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

Molecular Weight:

~40.5 kDa

Swiss-Prot:

Q96H96

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 COQ2 protein

DATA:

Western blot analysis of RET expression in A549 (A) whole cell lysates.

Immunohistochemical analysis of RET staining in human brain 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 RET staining in MDAMB231 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 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 - AF555 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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