

**PYROXD1 polyclonal antibody**

Catalog: BS35755

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

tRNA ligase complex-associated NAD(P)H dehydrogenase PYROXD1: Flavoprotein whose role is to protect RTCB, the catalytic subunit of the tRNA ligase complex (tRNA-LC) involved in tRNA splicing and unfolded protein response, from oxidative inactivation. It directly binds and shields the catalytic center of RTCB, prior to guanylation, when it is inactive and its active site is vulnerable to oxidation under aerobic conditions. The interaction of PYROXD1 with RTCB is allosterically regulated by NAD(P)H binding and reduction of its FAD co-factor, while reoxidation of PYROXD1 thanks to its NADPH dehydrogenase activity triggers the timed release of RTCB, enabling its subsequent activation. Thereby, this protective mechanism may also function as a molecular timer, regulating RTCB activation through controlled release

Product:

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

Molecular Weight:

~55.8 kDa

Swiss-Prot:

Q8WU10

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

Specificity:

Recognizes endogenous levels of PYROXD1 protein

DATA:

Western blot analysis of CALB1 expression in K562 (A), rat kidney (B) whole cell lysates.

Immunohistochemical analysis of CALB1 staining in rat 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.

Note:

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

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