

Makorin-3 polyclonal antibody

Catalog: BS31264

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

E3 ubiquitin-protein ligase makorin-3: E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. Acts as a key developmental timer that helps ensure puberty begins at the appropriate age, by inhibiting premature activation of the reproductive hormone cascade. Epigenetically regulates GNRH1 transcription by disrupting the binding of methyl-DNA binding protein 3/MBD3 to the promoter of GNRH1. Mechanistically, mediates the non-proteolytic ubiquitination of MBD3 at multiple sites with 'Lys27' ubiquitin linkages and thereby regulates the methylation status of the genome, including GNRH1 promoter. Modulates the stability and translation of GNRH1 mRNA by mediating the non-proteolytic ubiquitination of PABP family members PABPC1, PABPC3 and PABPC4 at multiple sites. Also participates in the maintenance of genomic and epigenomic stability by regulating the abundance of APEX2 via 'Lys-48...

Product:

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

Molecular Weight:

~55.6 kDa

Swiss-Prot:

Q13064

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/2000)

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 Makorin-3 protein

DATA:



Western blot analysis of CACNG3 expression in human brain (A), mouse brain (B), rat brain (C) whole cell lysates.

Immunohistochemical analysis of CACNG3 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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