

GNPDA1 monoclonal antibody

Catalog: MB66991

Host: Mouse

Reactivity: Mouse

BackGround:

Catalyzes the reversible conversion of alpha-D-glucosamine 6-phosphate (GlcN-6P) into beta-D-fructose 6-phosphate (Fru-6P) and ammonium ion, a regulatory reaction step in de novo uridine diphosphate-N-acetyl-alpha-D-glucosamine (UDP-GlcNAc) biosynthesis via hexosamine pathway. Deamination is coupled to aldo-keto isomerization mediating the metabolic flux from UDP-GlcNAc toward Fru-6P. At high ammonium level can drive amination and isomerization of Fru-6P toward hexosamines and UDP-GlcNAc synthesis (By similarity). Has a role in fine tuning the metabolic fluctuations of cytosolic UDP-GlcNAc and their effects on hyaluronan synthesis that occur during tissue remodeling (By similarity). Seems to trigger calcium oscillations in mammalian eggs. These oscillations serve as the essential trigger for egg activation and early development of the embryo (By similarity).

Product:

Mouse IgG1 kappa. Supplied in crude ascites with 0.01% sodium azide.

Molecular Weight:

~ 33 kDa

Swiss-Prot:

O88958

Purification&Purity:

Applications:

WB (1/500 - 1/4000)

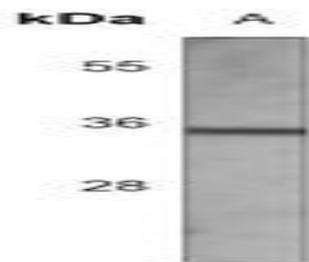
Storage&Stability:

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

Specificity:

Recognizes endogenous levels of GNPDA1 protein.

DATA:



Western blot analysis of GNPDA1 expression in mouse kidney (A) whole cell lysates.

Note:

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

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