



PRODUCT DATA SHEET

Bioworld Technology, Inc.

TGDS polyclonal antibody

Catalog: BS35093

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

UDP-D-glucose 4,6-dehydratase: UDP-glucose 4,6-dehydratase that converts UDP-glucose into UDP-4-keto-6-deoxyglucose, and which is required for glycosaminoglycan biosynthesis and skeletal development. UDP-4-keto-6-deoxyglucose is a mimic of the reaction intermediate of UXS1 and acts as an enzyme-rescue metabolite to promote the completion of UXS1 catalytic cycle when NAD(+) levels are low. Under low NAD(+) conditions, UXS1 forms an inactive UDP-4-ketoxylose intermediate bound to NADH, impairing the synthesis of specific glycans that are essential for skeletal development. UDP-4-keto-6-deoxyglucose is used by the inactive NADH-bound UXS1 to produce UDP-6-deoxyglucose and NAD(+) within the catalytic pocket of UXS1, regenerating the essential cofactor NAD(+)

Product:

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

Molecular Weight:

~40.2 kDa

Swiss-Prot:

O95455

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

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 TGDS protein

DATA:

Western blot analysis of CD203c expression in HEK293T (A), HepG2 (B), mouse muscle (C), rat muscle (D) whole cell lysates.

Immunohistochemical analysis of CD203c staining in human prostate 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.

Note:

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

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