

# Anti-Glucosidase 2 subunit beta Antibody [A6H9]

## HA600054



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Mouse monoclonal IgG1, primary antibodies |
| <b>Species reactivity:</b> | Human                                     |
| <b>Applications:</b>       | WB, IF-Cell, IHC-P, FC                    |
| <b>Molecular Wt:</b>       | Predicted band size: 59 kDa               |
| <b>Clone number:</b>       | A6H9                                      |

**Description:** Regulatory subunit of glucosidase II that cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins. Required for efficient PKD1/Polycystin-1 biogenesis and trafficking to the plasma membrane of the primary cilia (By similarity). This gene encodes the beta-subunit of glucosidase II, an N-linked glycan-processing enzyme in the endoplasmic reticulum. The encoded protein is an acidic phosphoprotein known to be a substrate for protein kinase C. Mutations in this gene have been associated with the autosomal dominant polycystic liver disease. Alternative splicing results in multiple transcript variants.

**Immunogen:** Recombinant protein within human Glucosidase 2 subunit beta aa 51-250.

**Positive control:** HeLa cell lysate, 293T cell lysate, Daudi cell lysate, Jurkat cell lysate, A431 cell lysate, Hela, human placenta tissue.

**Subcellular location:** Endoplasmic reticulum.

**Database links:** SwissProt P14314 Human

### Recommended Dilutions:

|                |               |
|----------------|---------------|
| <b>WB</b>      | 1:500-1:2,000 |
| <b>IF-Cell</b> | 1:100         |
| <b>IHC-P</b>   | 1:200         |
| <b>FC</b>      | 1:500-1:1,000 |

**Storage Buffer:** PBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein G affinity purified.

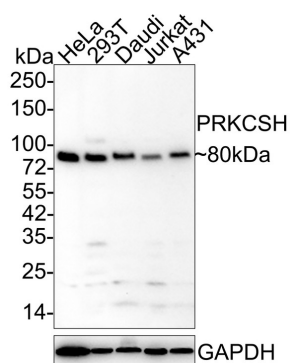
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**Fig1:** Western blot analysis of Glucosidase 2 subunit beta on different lysates with Mouse anti-Glucosidase 2 subunit beta antibody (HA600054) at 1/1,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: 293T cell lysate

Lane 3: Daudi cell lysate

Lane 4: Jurkat cell lysate

Lane 5: A431 cell lysate

Lysates/proteins at 20 µg/Lane.

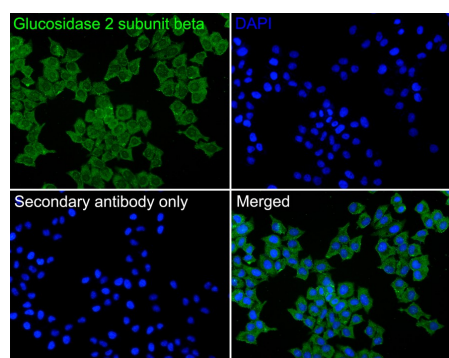
Predicted band size: 59 kDa

Observed band size: 80 kDa

Exposure time: 5 minutes;

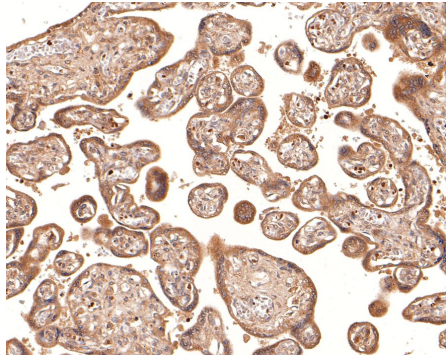
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA600054) at 1/1,000 dilution was used in 5% NFDm/TBST at 4 °C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.



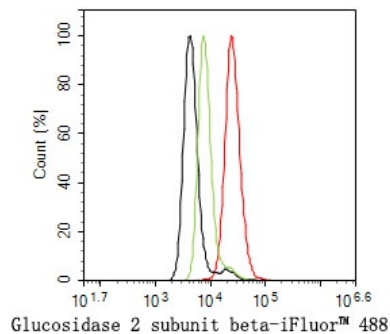
**Fig2:** Immunocytochemistry analysis of HeLa cells labeling Glucosidase 2 subunit beta with Mouse anti-Glucosidase 2 subunit beta antibody (HA600054) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 1% BSA for 30 minutes at room temperature. Cells were then incubated with Mouse anti-Glucosidase 2 subunit beta antibody (HA600054) at 1/100 dilution in 1% BSA overnight at 4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human placenta tissue with Mouse anti-Glucosidase 2 subunit beta antibody (HA600054) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA600054) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Flow cytometric analysis of HeLa cells labeling Glucosidase 2 subunit beta.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA600054, 1ug/ml) (red) compared with Mouse IgG1 Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Mouse IgG Secondary antibody (HA1125) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Huang R. et al. PRKCSH Alternative Splicing Involves in Silica-Induced Expression of Epithelial-Mesenchymal Transition Markers and Cell Proliferation. Dose Response. 2020 May
2. Shin GC. et al. PRKCSH contributes to tumorigenesis by selective boosting of IRE1 signaling pathway. Nat Commun. 2019 Jul

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