

# Product Information

## **MemDX™ Antibody Discovery - Human Glypican 3 / GPC3 (25-559) Membrane Protein, Partial, -hIgG1 Fc tag, [FITC]**

Cat. No.: **MP0157F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human Glypican 3 / GPC3 (25-559). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

Glypican 3 / GPC3

#### **Protein Length**

ECD

#### **Molecular Weight**

This protein contains a furin-like convertase cleavage site, 355-RQYR-358, and will be partially processed into N and C-terminal fragment with calculated MW of 38.1 kDa and 49.3 kDa respectively. The protein migrates as 40 kDa, 60 kDa and 87-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### **Sequence**

AA Gln 25 - His 559 (Accession # P51654-1).

### Product Description

#### **Activity**

Yes

#### **Application**

SDS-PAGE, ELISA

#### **Expression Systems**

HEK293

#### **Tag**

Human IgG1 Fc tag at the C-terminus

#### **Protein Format**

Soluble

**Form**

LYOPH

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

**Endotoxin**

<1.0 EU/μg by the LAL method

**Conjugation**

FITC

**Purity**

>90% as determined by SDS-PAGE.

**Buffer**

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

**Storage**

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

**Target****Target Protein**

Glypican 3 / GPC3

**Full Name**

glypican 3

**Introduction**

Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants.

**Alternative Names**

SGB; DGSX; MXR7; SDYS; SGBS; OCI-5; SGBS1; GTR2-2; glypican-3; glypican proteoglycan 3; heparan sulphate proteoglycan; intestinal protein OCI-5; secreted glypican-3

**Gene ID**

[2719](#)

**UniProt ID**

[P51654](#)