# Glypican 3 Polyclonal ANTIbODY

**Catalog Number:** 11145-1-AP

## Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>11145-1-AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>45 μg/150 μl</td>
</tr>
<tr>
<td>Source:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Purification Method:</td>
<td>Antigen affinity purification</td>
</tr>
<tr>
<td>Immunogen Catalog Number:</td>
<td>AG1433</td>
</tr>
</tbody>
</table>

**GenBank Accession Number:** BC035972  
**GeneID (NCBI):** 2719  
**Full Name:** glypican 3  
**Calculated MW:** 580 aa, 66 kDa  
**Observed MW:** 66 kDa

## Applications

**Tested Applications:** ELISA  
**Cited Applications:** WB  
**Species Specificity:** human, mouse, rat

## Background Information

Glypicans (GPCs) are a family of glycosylphosphatidylinositol (GPI)-anchored heparan sulphate proteoglycans (HSPGs) that may play a role in the control of cell division and growth regulation. In mammals, there are six GPCs (GPC1 to GPC6), all of which have a similar core-protein size of approx. 60 kDa and the clustering of glycosaminoglycan attachment site near the C-terminus. They are tethered to the cell surface by GPI linkages, which can be cleaved by endogenous phospholipases, thus releasing the protein. Glypican 3 (GPC3) is highly expressed in many tissues during development and plays an important role in the regulation of embryonic growth (PMID: 22467855). Loss-of-function mutations of GPC3 result in the Simpson-Golabi-Behmel overgrowth syndrome (SGBS), and Gpc-3 null mice display developmental overgrowth (PMID: 8589713, 18477423). In hepatocellular carcinoma (HCC), the overexpression of GPC3 has been demonstrated to be a reliable diagnostic indicator (PMID: 19212669, 22706665).

## Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xin-Hui Qi</td>
<td>25270552</td>
<td>Mol Med Rep</td>
<td>WB</td>
</tr>
</tbody>
</table>

## Storage

**Storage:** Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:** FBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product, please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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Selected Validation Data