

**DESCRIPTION**

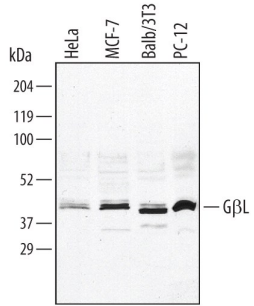
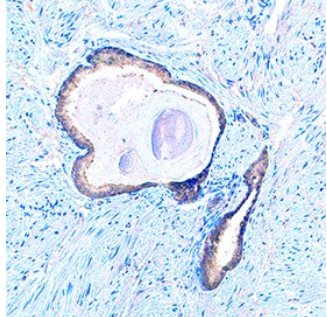
<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat GβL in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human GβL Met1-Gly327 Accession # Q9BVC4
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 μg/mL	See Below
<b>Immunohistochemistry</b>	5-15 μg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human/Mouse/Rat GβL by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, MCF-7 human breast cancer cell line, Balb/3T3 mouse embryonic fibroblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 1 μg/mL of Human/Mouse/Rat GβL Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4004) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for GβL at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>GβL in Human Prostate.</b> GβL was detected in immersion fixed paraffin-embedded sections of human prostate using Goat Anti-Human/Mouse/Rat GβL Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4004) at 10 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

G-protein β-subunit-like (GβL), also known as mLST8, is a subunit of the Target of Rapamycin (TOR) complex. GβL contains 7 WD-40 repeats, and binds to the kinase domain of TOR in both the Raptor (Rapamycin-sensitive)-and Rictor (Rapamycin-insensitive)-containing complexes. GβL is necessary for the full activation of the TOR kinase, and phosphorylation of many downstream proteins, including 4E-BP1 and p70<sup>S6</sup> kinase.