

**DESCRIPTION**

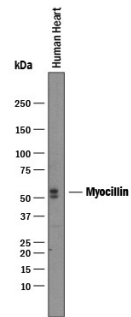
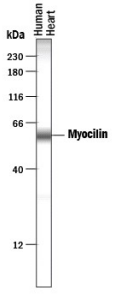

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Myocilin in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Myocilin Arg33-Met504 Accession # Q99972
<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 either lyophilized or 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>Simple Western</b>	50 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human Myocilin by Western Blot.</b> Western blot shows lysates of human heart tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Myocilin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2537) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). Specific bands were detected for Myocilin at approximately 55 and 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Simple Western</b></p>  <p><b>Detection of Human Myocilin by Simple Western™.</b> Simple Western lane view shows lysates of human heart tissue, loaded at 0.2 mg/mL. A specific band was detected for Myocilin at approximately 58 kDa (as indicated) using 50 µg/mL of Goat Anti-Human Myocilin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2537) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</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**

Myocilin (also known as TIGR) is a variably glycosylated, 65 kDa, secreted polypeptide that belongs to the family of olfactomedin-related proteins. Human Myocilin is synthesized as a 490 amino acid (aa) precursor that contains an 18 aa signal sequence, an 84 aa N-terminus, a 53 aa α-helical leucine zipper and a 335 aa C-terminus that contains a 260 aa OLF-domain. An alternate start site generates a signal-sequenceless 504 aa mature protein. Myocilin forms nondisulfide-linked dimers and multimers. The human 32 kDa OLF-domain shares 87% aa sequence identity with the OLF-domain in bovine, rat and mouse.