**DESCRIPTION**

**Species Reactivity**  
Human

**Specificity**  
Detects human Myocilin in direct ELISAs and Western blots.

**Source**  
Polyclonal Goat IgG

**Purification**  
Antigen Affinity-purified

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant human Myocilin Arg33-Met504  
Accession # Q99972

**Formulation**  
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.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 µg/mL</td>
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<tr>
<td>Simple Western</td>
<td>50 µg/mL</td>
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</tbody>
</table>

**DATA**

**Western Blot**  
Detection of Human Myocilin by Western Blot. 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.

**Simple Western**  
Detection of Human Myocilin by Simple Western™. 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.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping**  
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.*

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**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.