

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Myocilin in direct ELISA.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 297823
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Myocilin Arg33-Met504 Accession # Q99972
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**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>Flow Cytometry</b>	Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was HEK293 cells transfected with Human MYOC vs Irrelevant transfectant.
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**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</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 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.

**PRODUCT SPECIFIC NOTICES**

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