

For Research Use Only

# Myocilin Polyclonal antibody

Catalog Number: 14238-1-AP **6 Publications**



## Basic Information

**Catalog Number:**

14238-1-AP

**Size:**

150ul, Concentration: 450 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5492

**GenBank Accession Number:**

BC029261

**GeneID (NCBI):**

4653

**UNIPROT ID:**

Q99972

**Full Name:**

myocilin, trabecular meshwork inducible glucocorticoid response

**Calculated MW:**

57 kDa

**Observed MW:**

66 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB : human heart tissue, human stomach tissue, mouse skeletal muscle tissue

IP : mouse skeletal muscle tissue,

## Background Information

Myocilin (MYOC), also known as TIGR or GLC1A, is a secreted glycoprotein of the olfactomedin family, originally identified in trabecular meshwork cells after prolonged treatment with glucocorticoids, and, independently, in the retina (PMID: 9176893; 9169133). It may participate in the obstruction of fluid outflow in the trabecular meshwork. Defects in MYOC are the cause of primary open angle glaucoma (POAG) (PMID: 21709622). MYOC has a molecular weight of 55-57 kDa, besides, a 66-kDa form, which could be a result of post-translational modifications, has also been reported in some researches (PMID: 9497363; 12150989).

## Notable Publications

Author	Pubmed ID	Journal	Application
Miao Wei	36017046	Int J Ophthalmol	WB
Ziyu Zhou	33987224	Ann Transl Med	WB
Wen-Jian Liu	39841389	Discov Oncol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

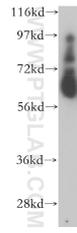
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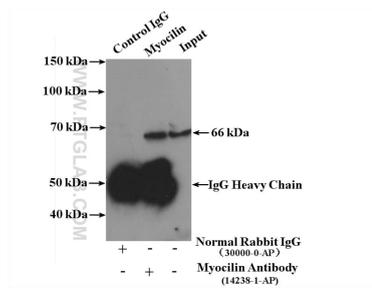
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## Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 14238-1-AP (Myocilin antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP result of anti-Myocilin (IP:14238-1-AP, 4ug; Detection:14238-1-AP 1:500) with mouse skeletal muscle tissue lysate 4000ug.