

MYOC Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a full-length recombinant MYOC.****Catalog # AT2962a****Specification**

MYOC Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	Q99972
Other Accession	BC029261
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	56972

MYOC Antibody (monoclonal) (M02) - Additional Information**Gene ID** 4653**Other Names**

Myocilin, Myocilin 55 kDa subunit, Trabecular meshwork-induced glucocorticoid response protein, Myocilin, N-terminal fragment, Myocilin 20 kDa N-terminal fragment, Myocilin, C-terminal fragment, Myocilin 35 kDa N-terminal fragment, MYOC, GLC1A, TIGR

Target/Specificity

MYOC (AAH29261, 1 a.a. ~ 504 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

MYOC Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

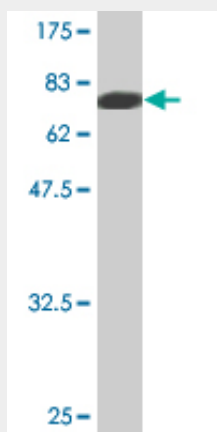
MYOC Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

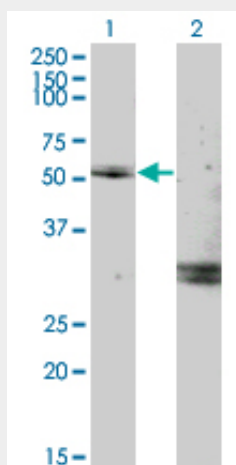
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MYOC Antibody (monoclonal) (M02) - Images

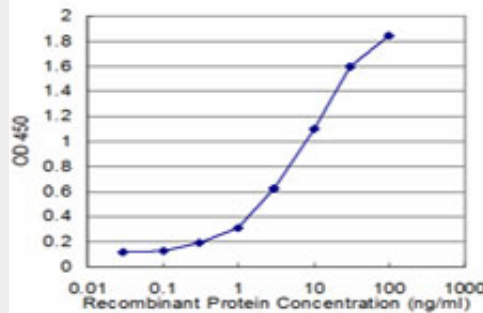


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (81.18 kDa) .



Western Blot analysis of MYOC expression in transfected 293T cell line by MYOC monoclonal antibody (M02), clone 2B4.

Lane 1: MYOC transfected lysate(57 kDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged MYOC is approximately 0.3ng/ml as a capture antibody.

MYOC Antibody (monoclonal) (M02) - Background

MYOC encodes the protein myocilin, which is believed to have a role in cytoskeletal function. MYOC is expressed in many ocular tissues, including the trabecular meshwork, and was revealed to be the trabecular meshwork glucocorticoid-inducible response protein (TIGR). The trabecular meshwork is a specialized eye tissue essential in regulating intraocular pressure, and mutations in MYOC have been identified as the cause of hereditary juvenile-onset open-angle glaucoma.

MYOC Antibody (monoclonal) (M02) - References

Myocilin and optineurin coding variants in Hispanics of Mexican descent with POAG. McDonald KK, et al. J Hum Genet, 2010 Jul 29. PMID 20668460. Little evidence for association of the glaucoma gene MYOC with open-angle glaucoma. Sohn S, et al. Br J Ophthalmol, 2010 May. PMID 20447966. [Genetic variants of CYP1B1 and WDR36 in the patients with primary congenital glaucoma and primary open angle glaucoma from Saint-Petersburg] Motushchuk AE, et al. Genetika, 2009 Dec. PMID 20198978. Association of POAG risk factors and the Thr377Met MYOC mutation in an isolated Greek population. Wirtz MK, et al. Invest Ophthalmol Vis Sci, 2010 Jun. PMID 20107173. Variable clinical spectrum of the myocilin Gln368X mutation in a Dutch family with primary open angle glaucoma. Hogewind BF, et al. Curr Eye Res, 2010 Jan. PMID 20021252.