

MYOC Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MYOC.

Catalog # AT2961a

Product Information

Application	WB, IHC, IP, E
Primary Accession	Q99972
Other Accession	BC029261
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4F8
Calculated MW	56972

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, 36 a.a. ~ 135 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 kDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IP~~N/A E~~N/A
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) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

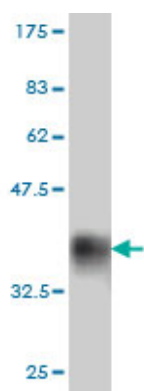
Background

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.

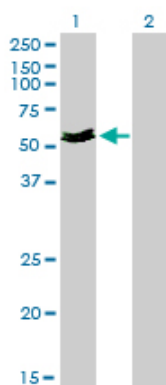
References

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.

Images

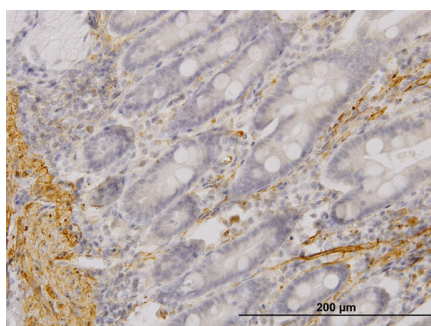


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



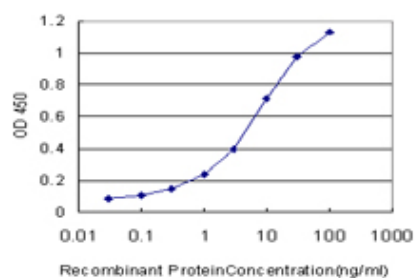
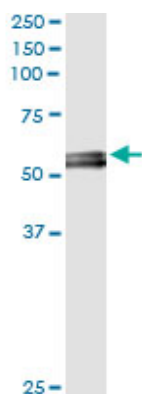
Western Blot analysis of MYOC expression in transfected 293T cell line by MYOC monoclonal antibody (M01), clone 4F8.

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

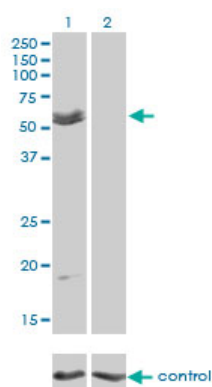


Immunoperoxidase of monoclonal antibody to MYOC on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]

Immunoprecipitation of MYOC transfected lysate using anti-MYOC monoclonal antibody and Protein A Magnetic Bead ([U0007](#)), and immunoblotted with MYOC MaxPab rabbit polyclonal antibody.



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



Western blot analysis of MYOC over-expressed 293 cell line, cotransfected with MYOC Validated Chimera RNAi (Cat # AT2961a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.