MYOC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MYOC, Polyclonal Antibody
Full Product Name	MYOC (Myocilin, Trabecular Meshwork-Induced Glucocorticoid Response Protein, GLC1A, TIGR) (MaxLight 490)
Product Gene Name	anti-MYOC antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human MYOC.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	56,972 Da
OMIM	phenotype 601652
3D Structure	ModBase 3D Structure for Q99972
Immunogen	Full length human MYOC, aa1-504 (NP_000252.1).
Immunogen Sequence	MRFFCARCCSFGPEMPAVQLLLLACLVWDVGARTAQLRKANDQSGRCQYTFSVASPNESSCPEQSQAMSVIHNLQRDSSTQRLDLEATKARLSSLESLI
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MYOC antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MYOC antibody	Western Blot (WB)
Application Notes for anti-MYOC antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-MYOC antibody	MYOC encodes the protein myocilin, which is believed to have a role in cytoskeletal function. MYOC is expressed in many ocular tissues, including th

Other Notes	Small volumes of anti-MYOC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces
Searchable Terms for MYOC purchase	MBS6386342 is an antibody targeting MYOC. Also known as MYOC (Myocilin, Trabecular Meshwork-Induced Glucocorticoid Response Protein, GLC1

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYOC. It may not necessarily be applicable to this product.

NCBI GI #	4557779
NCBI GeneID	4653
NCBI Accession #	NP_000252.1
UniProt Primary Accession #	Q99972
UniProt Secondary Accession #	O00620; Q7Z6Q9; B2RD84
UniProt Related Accession #	Q99972
GenBank Nucleotide #	NM_000261.1
NCBI Official Full Name	myocilin
NCBI Official Synonym Full Names	myocilin, trabecular meshwork inducible glucocorticoid response
NCBI Official Symbol	MYOC
NCBI Official Synonym Symbols	GPOA; JOAG; TIGR; GLC1A; JOAG1; myocilin
UniProt Protein Name	Myocilin
UniProt Synonym Protein Names	Myocilin 55 kDa subunit; Trabecular meshwork-induced glucocorticoid response proteinCleaved into the following 2 chains:Myocilin, N-terminal fragmentAlternative name(s):Myocilin 20 kDa N-terminal fragment
Protein Family	Myocilin
UniProt Gene Name	MYOC
UniProt Synonym Gene Names	GLC1A; TIGR
UniProt Entry Name	MYOC_HUMAN
NCBI Protein Information	myocilin; myocilin 55 kDa subunit; mutated trabecular meshwork-induced glucocorticoid response protein

UniProt Comments for MYOC	MYOC: May participate in the obstruction of fluid outflow in the trabecular meshwork. Defects in MYOC are the cause of primary open angle glaucoma type 1A (GLC1A). Primary open angle glaucoma (POAG) is characterized by a specific pattern of optic nerve and visual field defects. The angle of the anterior chamber of the eye is open, and usually the intraocular pressure is increased. The disease is asymptomatic until the late stages, by which time significant and irreversible optic nerve damage has already taken place. Defects in MYOC are a cause of primary congenital glaucoma type 3A (GLC3A). An autosomal recessive form of primary congenital glaucoma (PCG). PCG is characterized by marked increase of intraocular pressure at birth or early choldhood, large ocular globes (buphthalmos) and corneal edema. It results from developmental defects of the trabecular meshwork and anterior chamber angle of the eye that prevent adequate drainage of aqueous humor. MYOC variations may contribute to GLC3A via digenic inheritance with CYP1B1 and/or another locus associated with the disease. Protein type: Secreted; Secreted, signal peptide; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 1q23-q24 Cellular Component: extracellular matrix; Golgi apparatus; extracellular space; proteinaceous extracellular matrix; mitochondrial outer membrane; rough endoplasmic reticulum; endoplasmic reticulum; cytoplasmic membrane-bound vesicle; mitochondrial inner membrane; mitochondrial intermembrane space; cytoplasmic vesicle; cilium Molecular Function: protein binding; frizzled binding; fibronectin binding; myosin light chain binding; receptor tyrosine kinase binding Biological Process: clustering of voltage-gated sodium channels; negative regulation of stress fiber formation; negative regulation of cell-matrix adhesion; skeletal muscle hypertrophy; myelination in the peripheral nervous system; osteoblast differentiation; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of protein kinase B signaling cascade; negative regulation of Rho protein signal transduction; positive regulation of focal adhesion formation; positive regulation of mitochondrial depolarization; regulation of MAPKKK cascade; positive regulation of stress fiber formation; neurite development; positive regulation of cell migration Disease: Glaucoma 1, Open Angle, A
Research Articles on MYOC	**1.** The Asn480Lys mutation and the IVS2 730+35 G>A polymorphism increased susceptibility to juvenile-onset open angle glaucoma in this large Malay pedigree.
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