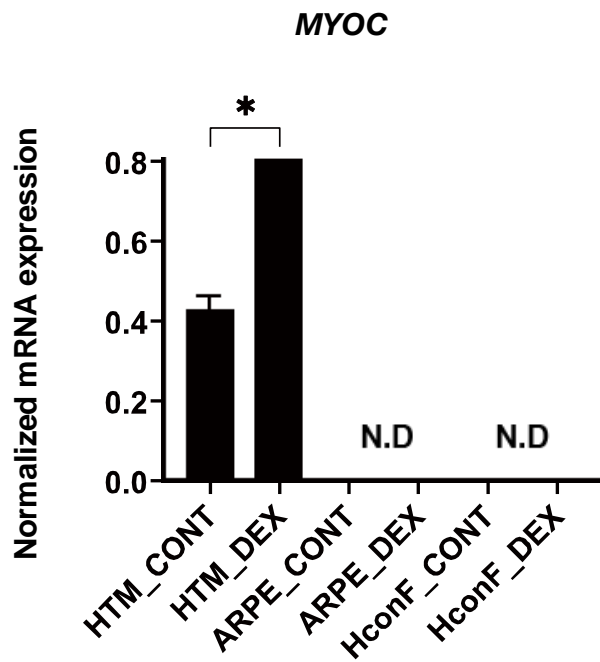
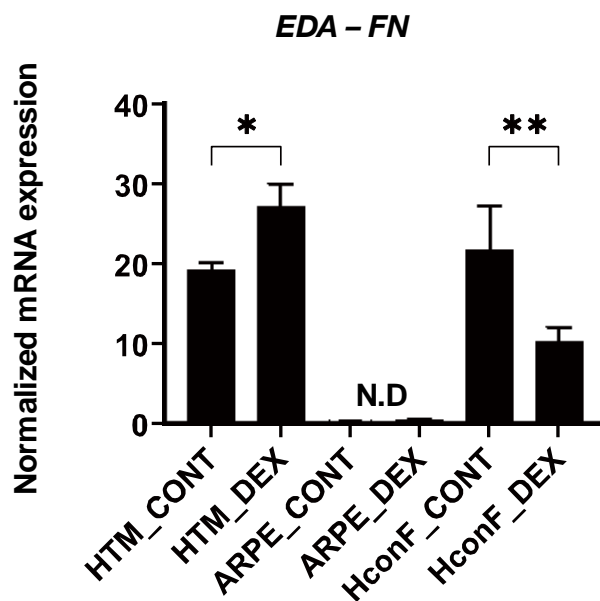


A



B



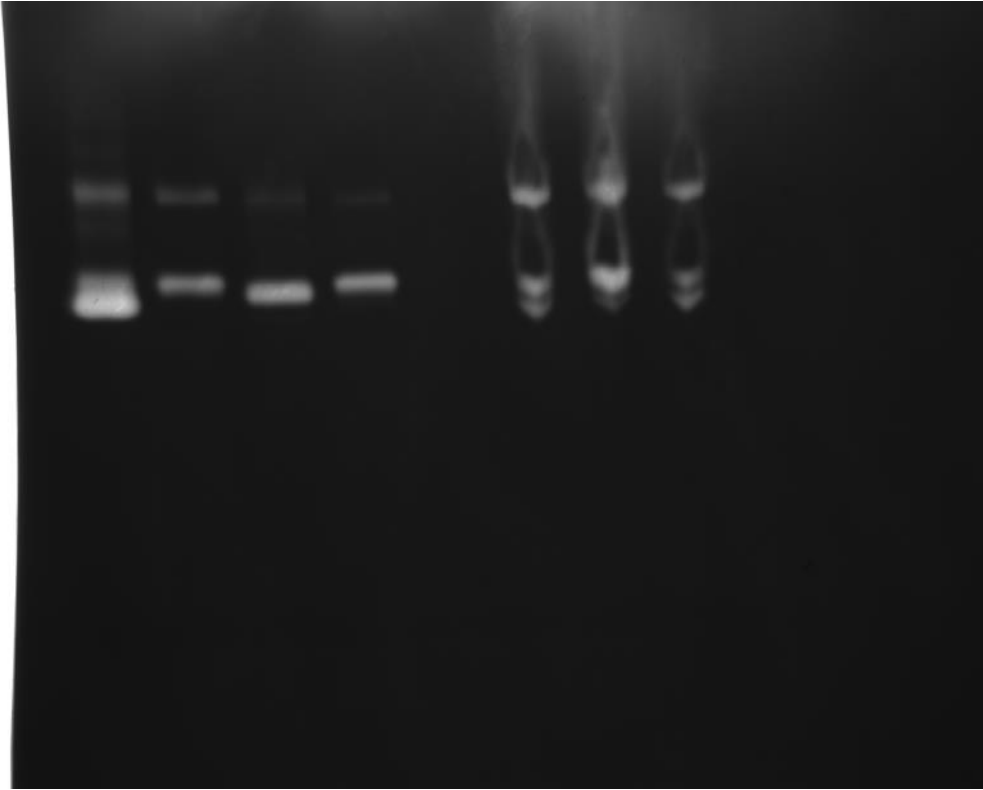
Supplemental Figure 1 mRNA expression of myocilin or EDA fibronectin in 2D cultured HTM, human conjunctival fibroblast (HconF) or human retinal pigment epithelium (HRPE).

In the absence or presence of 250 nM DEX, 2D cultured HTM, HconF or

HRPE at Day 6 were subjected to qPCR analysis to estimate the expression of mRNA of myocilin (*MYOC*, panel A) or EDA fibronectin (*EDA-FN*, panel B). All experiments were performed in duplicate using fresh preparations. Data are presented as the arithmetic mean \pm standard error of the mean (SEM). * $P < 0.05$, ** $P < 0.01$ (ANOVA followed by a Tukey's multiple comparison test).

		Sequence	Exon Location	RefSeqNumber
human RPLP0	Probe	5'-/56-FAM/CCCTGTCTT/ZEN/CCCTGGGCATCAC/3IABkFQ/-3'	2-3	NM_001002
	Primer2	5'-TCGTCTTTAAACCCCTGCGTG-3'		
	Primer1	5'-TGCTGCTCCACAATGAAAC-3'		
human COL1A1	Probe	5'-/56-FAM/TGCAGGGCC/ZEN/AAGACGAAGACATC/3IABkFQ/-3'	1-2	NM_000088
	Primer2	5'-GACATGTTGAGCTTTGTGGAC-3'		
	Primer1	5'-TTCTGTACGCAGGTGATTGG-3'		
human COL4A1	Probe	5'-/56-FAM/TCATACAGA/ZEN/CTTGGCAGCGGCT/3IABkFQ/-3'	51-52	NM_001845
	Primer2	5'-AGAGAGGAGCGAGATGTTCA-3'		
	Primer1	5'-TGAGTCAGGCTTCATTATGTTCT-3'		
human COL6A1	Primer2	5'-CCTCGTGGACAAAGTCAAGT-3'	2-3	NM_001848
	Primer1	5'-GTGAGGCCTTGGATGATCTC-3'		
human FN1	Primer2	5'-CGTCCTAAAGACTCCATGATCTG-3'	3-4	NM_212482
	Primer1	5'-ACCAATCTTGTAGGACTGACC-3'		
human α SMA	Probe	5'-/56-FAM/AGACCCTGT/ZEN/TCCAGCCATCCTTC/3IABkFQ/-3'	8-9	NM_001613
	Primer2	5'-AGAGTTACGAGTTGCCTGATG-3'		
	Primer1	5'-CTGTTGTAGGTGGTTTCATGGA-3'		
human TIMP1	Probe	5'-/56-FAM/TCAACCAGA/ZEN/CCACCTTATACCAGCG/3IABkFQ/-3'	2-4	NM_003254
	Primer2	5'-CCTTCTGCAATTCCGACCT-3'		
	Primer1	5'-GCTTGGAACCCCTTATACATCTTG-3'		
human TIMP2	Probe	5'-/56-FAM/TCTCATTGC/ZEN/AGGAAAGGCCGAGG/3IABkFQ/-3'	3-4	NM_003255
	Primer2	5'-GACGTTGGAGGAAAGAAGGA-3'		
	Primer1	5'-TGTGGTTCAGGCTCTTCTTC-3'		
human TIMP3	Probe	5'-/56-FAM/CCCTCCTTTA/ZEN/CCAGCTTCTTCCCAC/3IABkFQ/-3'	1-3	NM_000362
	Primer2	5'-CCTTCTGCAACTCCGACATC-3'		
	Primer1	5'-CGGTACATTTTCATCTGCTTGA-3'		
human TIMP4	Probe	5'-/56-FAM/ACTGAGGAC/ZEN/CTGACCAGTCAAGAGA/3IABkFQ/-3'	3-4	NM_003256
	Primer2	5'-GGTTTGAGAAAGTCAAGGATGTTTC-3'		
	Primer1	5'-GTTGCACAGATGGATGAAGAC-3'		
human MMP2	Primer2	5'-TCCACCACCTACAACCTTTGAG-3'	6-7	NM_004530
	Primer1	5'-GTGCAGCTGTCATAGGATGT-3'		
human MMP9	Primer2	5'-ACATCGTCATCCAGTTTGGTG-3'	3-4	NM_004994
	Primer1	5'-CGTCGAAATGGGCGTCT-3'		
human MMP14	Primer2	5'-TTCGCCGACTAAGCAGAAG-3'	1-1	NM_004995
	Primer1	5'-CTTGAATCCTAGACCGCTGT-3'		
human MYOC	Probe	5'-/56-FAM/CCTCTCCAC/ZEN/TCCTGAGATAGCCAGA/3IABkFQ/-3'		
	Primer2	5'-CTGCTTCCCGAATTTTGAAGG-3'		
	Primer1	5'-ATCCACACACCATACTTGCC-3'		

Supplemental Table 1 Sequences of primers of qPCR



Supplemental information for zymography

Fig. 9 is the monochrome inversion image obtained from original zymography gel attached here.

Product Datasheet



Immortalized Human Primary Trabecular Meshwork Cells - SV40

Cat. No.
T0371

Quantity
1x10⁶ cells / 1.0 ml

Organism	Homo sapiens
Source Organ	Juxtacanalicular and corneoscleral regions of human eye
BioSafety Level	II
Growth Properties	Adherent
Morphology	Polygonal
Recommended Seeding Density	10,000 - 20,000 cells/cm ²
Population Doubling	18-25 hours
Immortalization Method	Serial passaging and transduction with recombinant lentiviruses carrying SV40 Large T antigen

Description
Immortalized Human Primary Trabecular Meshwork Cells - SV40 were derived from the normal juxtacanalicular and corneoscleral tissue regions of the human eye, and were immortalized with SV40. Recommended for use in research for glaucoma and studies involving trabecular meshwork functions.

Applications
For Research Use Only

Propagation Requirements
Use of PriCoat™ T25 Flasks (G299) or Applied Cell Extracellular Matrix (G422) is required for cell adhesion to the culture vessels. Grow cells in ECM-coated culture vessels with the following conditions. The base medium for this cell line is Prigrow III medium available at abm, Cat. No. TM003. To make the complete growth medium, add the following components to the base medium: fetal bovine serum (TM999)* to a final concentration of 10% and Penicillin/Streptomycin Solution (G255) to a final concentration of 1%. Carbon dioxide (CO₂): 5%, Temperature: 37.0°C.

* abm does not recommend to use heat-inactivated FBS for cell culture unless specified otherwise.

Procedure Overview

コスモバイオ株式会社 COSMO BIO CO., LTD. 研究用 X69

品名 / Desc.	Immortalized Trabecular Meshwork Cells	
メーカー / -	APB Applied Biological Materials Inc.	
品番 /	T0371-C-ACADEMIC	
サイズ / Size	1 EACH	1x10 ⁶ cells / 1.0
ロット / Lot	0057835530001	
法令区分 / -	カルタヘナ	
貯蔵温度 / Store	液窒 [LN2]	
輸送条件 / Trans	ドライアイス多	



2000001838457



1-866-757-2414 (Toll Free)
604-247-2416 (Local)



Order: order@abmGood.com
Website: www.abmGood.com



Applied Biological Materials Inc.
8 - 13520 Crestwood Place,
Richmond, BC, CANADA V6V 2G2

Supplemental information for datasheet1 of immortalized HTM cell from company.



Certificate of Analysis

SUBMITTED BY:

Quality Control Personnel: 0017
Quality Assurance Personnel: 0130

Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5


Product Description

Product Name: Immortalized Human Primary Trabecular Meshwork Cells – SV40
Cat. Number: T0371–C
Lot Number: 0057835530001
Date of Manufacture: 10/ 2018
Species: *Homo sapiens*
Source Organ: Eye
Quantity: 1 vial (Cryopreserved)
Passage Number: 12
Cell Count: 1.11×10^6 Cells/ml
Viability: > 80%
Population Doubling Time: 18-25 hours
Recommended Seeding Density: 10,000 – 20,000 cells/cm²
Storage Conditions: -180°C

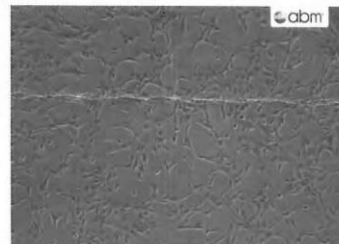
Specifications

Test	Method	Results
Sterility	****	Pass
Mycoplasma	PCR	Not Detected

Approved By:


Vidhu Sharma

Approved Date: October 12, 2018



T0371 – Immortalized Human Primary Trabecular Meshwork Cells – SV40

This product is for research use only and is not intended for therapeutic or diagnostic applications.
Please contact a technical service representative for more information.

Supplemental information for datasheet2 of immortalized HTM cell from company.