

For Research Use Only

# MITF Recombinant antibody

Catalog Number: 83803-2-RR



## Basic Information

Catalog Number:

83803-2-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3679

GenBank Accession Number:

BC012503

GeneID (NCBI):

4286

UNIPROT ID:

O75030

Full Name:

microphthalmia-associated  
transcription factor

Calculated MW:

91 aa, 10 kDa, 59 kDa

Observed MW:

60-65 kDa

Purification Method:

Protein A purification

CloneNo.:

240815E7

Recommended Dilutions:

IF/ICC 1:200-1:800

## Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : HeLa cells, HepG2 cells, A431 cells

## Background Information

The retinal pigment epithelium (RPE) has an essential role in maintaining visual function and dedifferentiation of RPE contributes to the pathophysiology of several ocular diseases (PMID:22523078). Microphthalmia-associated transcription factor (MITF) is a key regulator of RPE differentiation that is also down-regulated in dedifferentiated hfRPE cells. MITF is a basic helix-loop-helix (hHLH)-leucine zipper protein that involves in the development of various cell types, including neural crest-derived melanocytes and optic cup-derived retinal pigment epithelial cells (PMID: 10578055).

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

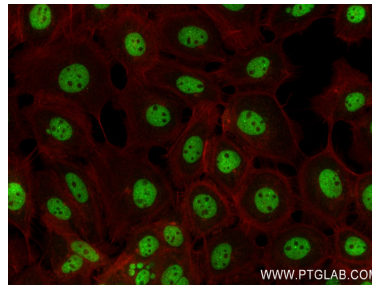
W: [ptgcn.com](http://ptgcn.com)

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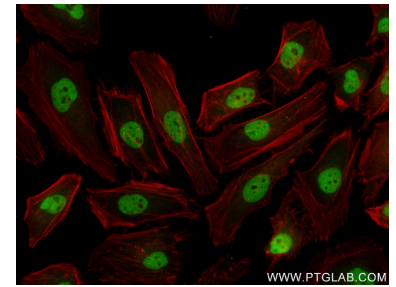
## Selected Validation Data



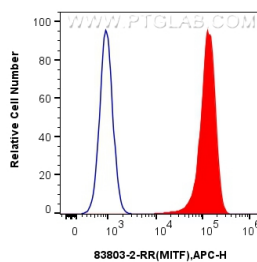
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MITF antibody (83803-2-RR, Clone: 240815E7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



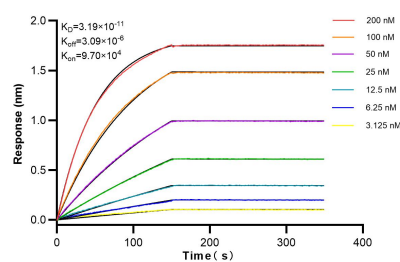
Immunofluorescent analysis of (4% PFA) fixed A431 cells using MITF antibody (83803-2-RR, Clone: 240815E7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MITF antibody (83803-2-RR, Clone: 240815E7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug MITF Recombinant antibody (83803-2-RR, Clone:240815E7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83803-2-RR against Human MITF were performed. The affinity constant is 31.9 pM.