

For Research Use Only

MITF Recombinant monoclonal antibody

Catalog Number:83803-1-RR



Basic Information

Catalog Number:

83803-1-RR

Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

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.:

240815B4

Recommended Dilutions:

WB: 1:1000-1:4000

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, Jurkat cells

FC (Intra) : HeLa cells, SW480 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

*** 20ul sizes contain 0.1% BSA

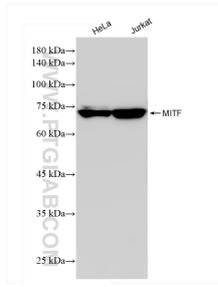
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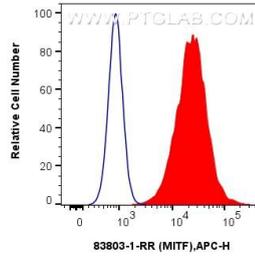
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83803-1-RR (MITF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g MITF Recombinant Antibody (83803-1-RR, Clone:240815B4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.