

## MITF Polyclonal Antibody

Catalog number: 13092-1-AP

Size: 31 µg/150 µl

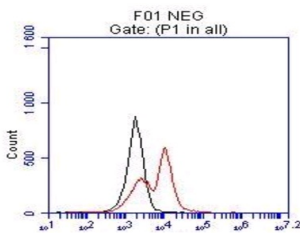
Source: Rabbit

Isotype: IgG

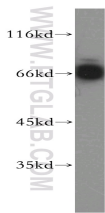
Synonyms:

MITF; bHLHe32, MI, MITF,

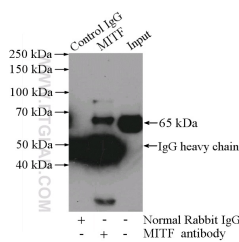
WS2A



FC result of anti-MITF (13092-1-AP, 1:50) with hESC which spontaneous differentiation toward retinal lineage (RPE). (Black: control; Red MITF).



Jurkat cells were subjected to SDS PAGE followed by western blot with 13092-1-AP(MITF antibody) at dilution of 1:400



IP Result of anti-MITF (IP:13092-1-AP, 4ug; Detection:13092-1-AP 1:1000) with mouse heart tissue lysate 4000ug.

### Background

The retinal pigment epithelium (RPE) has a 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 hRPE 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].

### Applications

|                         |   |
|-------------------------|---|
| Tested applications:    | ELISA, WB, FC, IP   |
| Cited applications:     | WB  |
| Species specificity:    | Human, Mouse, Rat; other species not tested.                  |
| Cited species:          | Human, mouse  |
| Calculated MITF MW:     | 91aa, 10 kDa, 59 kDa  |
| Observed MITF MW:       | 60-65kd   |
| Positive WB detected in | Jurkat cells, HeLa cells, mouse heart tissue, rat skin tissue |
| Positive IP detected in | Mouse heart tissue  |
| Positive FC detected in | HESC cells  |
| Recommended dilution:   | WB: 1:1000-1:10000<br>IP: 1:500-1:5000<br>FC: 1:20-1:200      |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

|                           |  |
|---------------------------|--|
| Immunogen:                | Ag3679   |
| GenBank accession number: | BC012503                                       |
| Gene ID (NCBI):           | 4286   |
| Full name:                | Microphthalmia-associated transcription factor |

### Product information

|                      |  |
|----------------------|--|
| Purification method: | Antigen affinity purification  |
| Storage:             | PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |