

Anti-MiTF Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

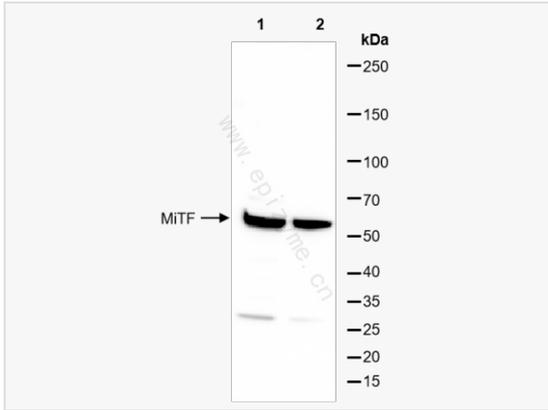
Catalog # R013893

Product Information

Application	IHC-P/IF (Tissue-P), ELISA, WB, IF (Cell)/ICC
Reactivity	Mouse, Rat, Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	48G04M77
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human MiTF
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-MiTF Rabbit mAb [48G04M77] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	BHLHE32, bHLHe32, Class E basic helix-loop-helix protein 32, CMM8, Homolog of mouse microphthalmia, Mi, Microphthalmia associated transcription factor, Microphthalmia, mouse, homolog of, Microphthalmia-associated transcription factor, MITF, MITF_HUMAN, mitfa, nacre, WS2, WS2A, z3A.1.
Calculated MW	Calculated MW: 58 kDa; Observed MW: 52 kDa
Uniprot ID	O75030
Gene ID	4286
Background	Microphthalmia-associated transcription factor (MITF) is a basic helix-loop-helix leucine zipper transcription factor that is most widely known for its roles in melanocyte, ophthalmic, and osteoclast development. Plays a critical role in the differentiation of various cell types as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium.
Cellular Location	Nucleus.
Tissue Location	Isoform M is exclusively expressed in melanocytes and melanoma cells. Isoform A and isoform H are widely expressed in many cell types including melanocytes and retinal pigment epithelium (RPE). Isoform C is expressed in many cell types including RPE but not in melanocyte-lineage cells.



Western Blot - Anti-MiTF Rabbit mAb [48G04M77]

All lanes: R013893 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

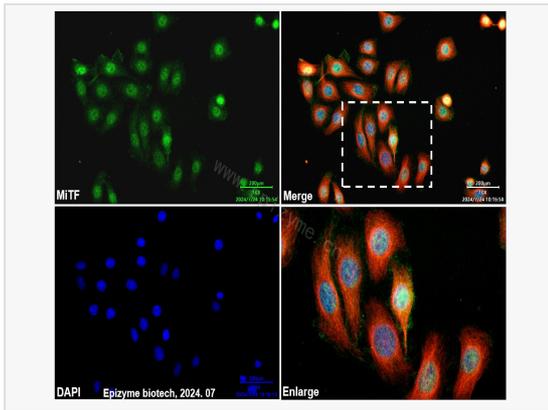
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 58 kDa

Observed band size: 52 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-MiTF Rabbit mAb [48G04M77]

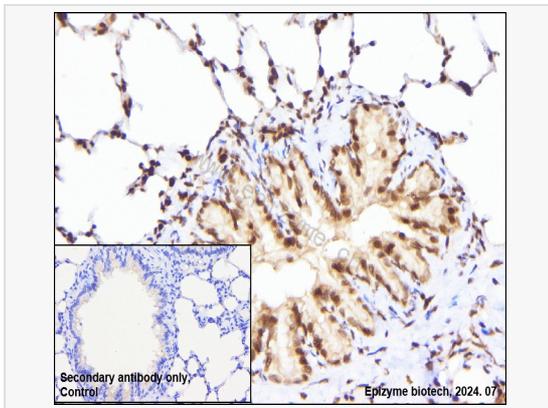
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R013893 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-MiTF Rabbit mAb [48G04M77]

Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

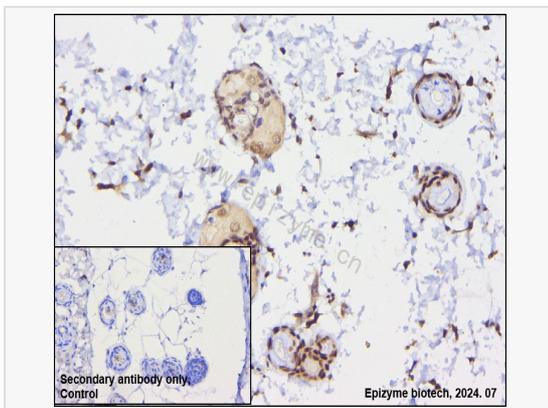
Primary antibody: R013893 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-MiTF Rabbit mAb [48G04M77]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse skin tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

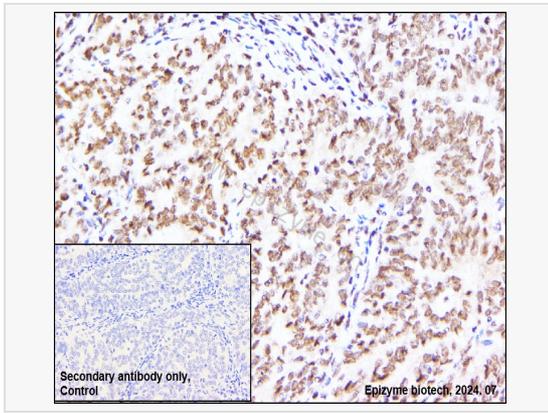
Primary antibody: R013893 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-MiTF Rabbit mAb [48G04M77]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013893 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.