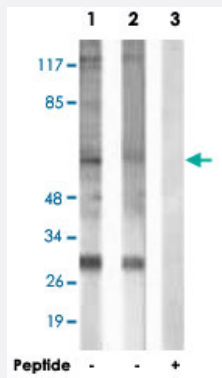


MITF polyclonal antibody

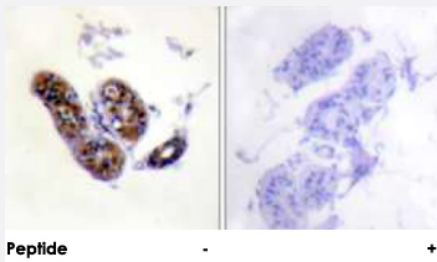
Catalog # PAB18189 Size 100 ug

Applications



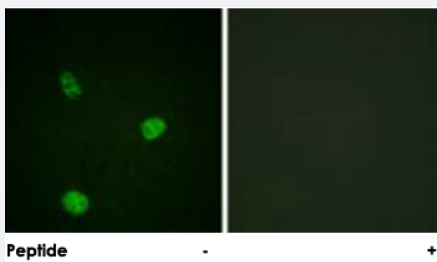
Western Blot (Cell lysate)

Western blot analysis of extracts from HepG2 cells (Lane 1) and COLO 205 cells (Lane 2 and 3), using MITF polyclonal antibody (Cat # PAB18189). Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human skin tissue using MITF polyclonal antibody (Cat # PAB18189). Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, using MITF polyclonal antibody (Cat # PAB18189). Peptide "+" means "peptide blocking".

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of MITF.

Immunogen	A synthetic peptide corresponding to residues surrounding S180/S73 of human MITF.
Host	Rabbit
Reactivity	Human, Mouse
Specificity	This antibody is specific to MITF.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HepG2 cells (Lane 1) and COLO 205 cells (Lane 2 and 3), using MITF polyclonal antibody (Cat # PAB18189).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human skin tissue using MITF polyclonal antibody (Cat # PAB18189).

Peptide "+" means "peptide blocking".

- Immunofluorescence

Immunofluorescence analysis of HeLa cells, using MITF polyclonal antibody (Cat # PAB18189).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MITF

Entrez GeneID [4286](#)

Protein Accession# [O75030](#)

Gene Name MITF

Gene Alias MI, WS2A, bHLHe32

Gene Description microphthalmia-associated transcription factor

Omim ID [103470](#) [103500](#) [156845](#) [193510](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a transcription factor that contains both basic helix-loop-helix and leucine zipper structural features. It regulates the differentiation and development of melanocytes retinal pigment epithelium and is also responsible for pigment cell-specific transcription of the melanogenesis enzyme genes. Heterozygous mutations in the this gene cause auditory-pigmentary syndromes, such as Waardenburg syndrome type 2 and Tietz syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations OTTHUMP00000195123|OTTHUMP00000195140|homolog of mouse microphthalmia

Publication Reference

- [Migration and fate of vestibular melanocytes during development of the human inner ear.](#)

Edward S A van Beelen, Wouter H van der Valk, John C M J de Groot, Erik F Hensen, Heiko Locher, Peter Paul G van Benthem.

Developmental Neurobiology 2020 Nov; 80(11-12):411.

Application: IHC-P, Human, Human embryo, Human otic vesicle

- [Roles of MITF for development of mast cells in mice: effects on both precursors and tissue environments.](#)

Morii E, Oboki K, Ishihara K, Jippo T, Hirano T, Kitamura Y.

Blood 2004 Sep; 104(6):1656.

- [The basic helix-loop-helix leucine zipper transcription factor Mitf is conserved in Drosophila and functions in eye development.](#)

Hallsson JH, Hafliðadóttir BS, Stivers C, Odenwald W, Arnheiter H, Pignoni F, Steingrímsson E.

Genetics 2004 May; 167(1):233.

- [Importance of leucine zipper domain of mi transcription factor \(MITF\) for differentiation of mast cells demonstrated using mi\(ce\)/mi\(ce\) mutant mice of which MITF lacks the zipper domain.](#)

Morii E, Ogihara H, Kim DK, Ito A, Oboki K, Lee YM, Jippo T, Nomura S, Maeyama K, Lamoreux ML, Kitamura Y.

Blood 2001 Apr; 97(7):2038.

Pathway

- [Melanogenesis](#)
- [Melanoma](#)
- [Pathways in cancer](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Neoplasm Metastasis](#)
- [Osteoporosis](#)
- [Retinal Diseases](#)
- [Skin Neoplasms](#)
- [Tobacco Use Disorder](#)