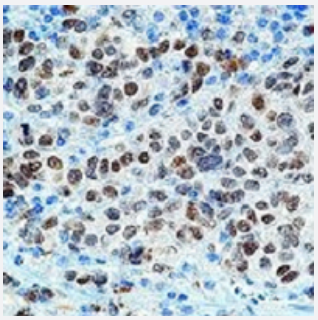
# MITF monoclonal antibody, clone C5

Catalog # MAB1955 Size 100 ug

## Applications



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

Immunohistochemical staining usin MITF monoclonal antibody, clone C5 (Cat # MAB1955) on formalin fixed, paraffin embedded human melanoma.

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against partial recombinant MITF. |
| **Immunogen** | Recombinant protein corresponding to N-terminus of human MITF. |
| **Host** | Mouse |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein. |
| **Recommend Usage** | Western blot (1 ug/mL)<br>Immunoprecipitation (2 ug/mg of protein lysate)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.08% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |

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| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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

  Immunohistochemical staining usin MITF monoclonal antibody, clone C5 (Cat # MAB1955) on formalin fixed, paraffin embedded human melanoma.
- Immunohistochemistry (Frozen sections)
- Immunoprecipitation
- Gel Supershift Assay

## Gene Info — MITF

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|---|---|
| **Entrez GeneID** | 4286 |
| **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 zipp er structural features. It regulates the differentiation and development of melanocytes retinal pigm ent 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, s uch as Waardenburg syndrome type 2 and Tietz syndrome. Alternatively spliced transcript variant s encoding different isoforms have been identified. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000195123\|OTTHUMP00000195140\|homolog of mouse microphthalmia |

## Publication Reference

- Age-resolving osteopetrosis: a rat model implicating microphthalmia and the related transcription factor TFE3.

  Weilbaecher KN, Hershey CL, Takemoto CM, Horstmann MA, Hemesath TJ, Tashjian AH, Fisher DE.

  The Journal of Experimental Medicine 1998 Mar; 187(5):775.

  Application: ICC, IP, WB-Ce, Human, Mouse, Rat, B16, L, NIH/3T3 cells, Osteoclasts

- MAP kinase links the transcription factor Microphthalmia to c-Kit signalling in melanocytes.

  Hemesath TJ, Price ER, Takemoto C, Badalian T, Fisher DE.

  Nature 1998 Jan; 39(6664):298.

  Application: WB-Ce, Human, Melanoma cells

## 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