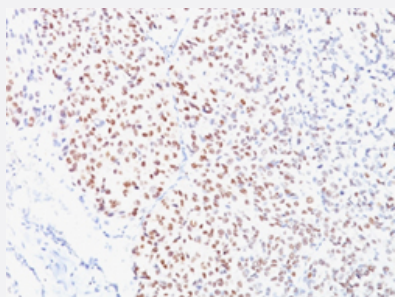


MITF monoclonal antibody, clone D5

Catalog # MAB14360 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with MITF monoclonal antibody, clone D5 (Cat # MAB14360).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human MITF.
Immunogen	Recombinant protein corresponding to N-terminus of human MITF.
Host	Mouse
Theoretical MW (kDa)	52-56
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10 ⁶ cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS.

Storage Instruction

Store at -20 to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human melanoma with MITF monoclonal antibody, clone D5 (Cat # MAB14360).

- Immunofluorescence
- Flow Cytometry

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

- [A TCF4-dependent gene regulatory network confers resistance to immunotherapy in melanoma.](#)

Joanna Pozniak, Dennis Pedri, Ewout Landeloos, Yannick Van Herck, Asier Antoranz, Lukas Vanwynsberghe, Ada Nowosad, Niccolò Roda, Samira Makhzami, Greet Bervoets, Lucas Ferreira Maciel, Carlos Ariel Pulido-Vicuña, Lotte Pollaris, Ruth Seurinck, Fang Zhao, Karine Flem-Karlsen, William Damsky, Limin Chen, Despoina Karagianni, Sonia Cinque, Sam Kint, Katy Vandereyken, Benjamin Rombaut, Thierry Voet, Frank Vernailen, Wim Annaert, Diether Lambrechts, Veerle Boecxstaens, Yvan Saeys, Joost van den Oor

Cell 2024 Jan; 187(1):166.

Application: IF, Human, Lymph node

- [The CD73 is induced by TGF- \$\beta\$ 1 triggered by nutrient deprivation and highly expressed in dedifferentiated human melanoma.](#)

Caterina Giraulo, Roberta Turiello, Lavinia Orlando, Sonia Leonardelli, Jennifer Landsberg, Raffaella Belvedere, Georg Rolshoven, Christa E Müller, Michael Hölzel, Silvana Morello.

Biomedicine & Pharmacotherapy 2023 Sep; 165:115225.

Application: IF, Human, Human melanoma

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](#)