



# MITF Monoclonal Antibody

Catalog No	YP-mAb-01870
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	MITF
Protein Name	Microphthalmia-associated transcription factor
Immunogen	The antiserum was produced against synthesized peptide derived from human MITF. AA range:151-200
Specificity	MITF Monoclonal Antibody detects endogenous levels of MITF protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MITF; BHLHE32; Microphthalmia-associated transcription factor; Class E basic helix-loop-helix protein 32; bHLHe32
Observed Band	52kD
Cell Pathway	Nucleus . Cytoplasm . Found exclusively in the nucleus upon phosphorylation
Tissue Specificity	Expressed in melanocytes (at protein level).; [Isoform A2]: Expressed in the retinal pigment epithelium, brain, and placenta (PubMed:9647758). Expressed in the kidney (PubMed:9647758, PubMed:10578055).; [Isoform C2]: Expressed in the kidney and retinal pigment epithelium.; [Isoform H1]: Expressed in the kidney.; [Isoform H2]: Expressed in the kidney.; [Isoform Mdel]: Expressed in melanocytes.
Function	alternative products:The X2-type isoforms differ from the X1-type isoforms by the absence of a 6 residue insert, disease:Defects in MITF are a cause of Waardenburg syndrome type 2 with ocular albinism (WS2-OA) [MIM:103470]. It is an ocular albinism with sensorineural deafness., disease:Defects in MITF are the cause of Tietz syndrome [MIM:103500]. It is an autosomal dominant disorder characterized by generalized hypopigmentation and profound, congenital, bilateral deafness. Penetrance is complete., disease:Defects in MITF are the cause of Waardenburg syndrome type 2A (WS2A) [MIM:193510]. It is a dominant inherited disorder characterized by sensorineural hearing loss and patches of depigmentation. The features show variable expression and



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penetrance.,function:Transcription factor for tyrosinase and tyrosi	inase-related
protein 1. Binds to a symmetrical DNA sequence (E-boxes) (5'-CA	ACGTG-3') foun

## **Background**

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. Inrovided by transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

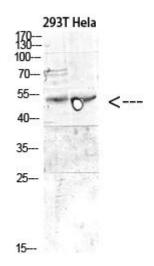
#### matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

# **Products Images**



Western Blot analysis of various cells using MITF Monoclonal Antibody