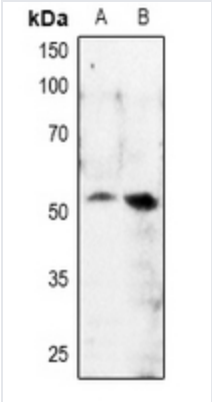
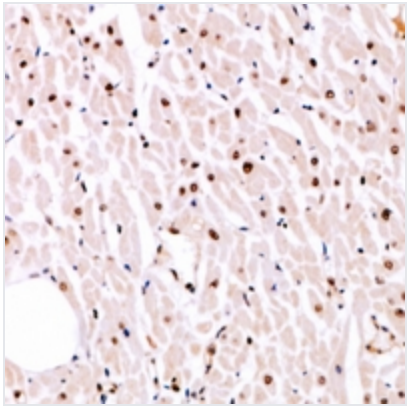
MITF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

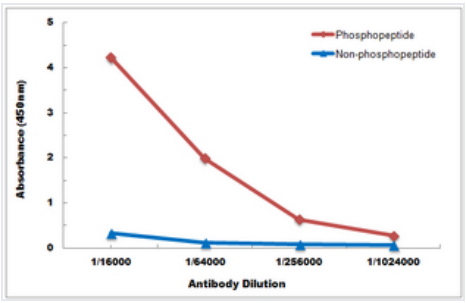
Product Name	MITF, Polyclonal Antibody
Full Product Name	Anti-MITF (pS180) Antibody
Product Gene Name	anti-MITF antibody
Product Synonym Names	BHLHE32; Microphthalmia-associated transcription factor; Class E basic helix-loop-helix protein 32; bHLHe32
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	58,795 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (69788586..70017488). Location: 3p14.2-p14.1
OMIM	103470
3D Structure	ModBase 3D Structure for O75030
Applications Tested/Suitable for anti-MITF antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-MITF antibody	Rabbit polyclonal antibody to MITF (pS180) KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MITF. The exact sequence is proprietary.
Other Notes	Small volumes of anti-MITF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MITF purchase	MBS9240636 is an antibody targeting MITF. Also known as Anti-MITF (pS180) Antibody. Reactive in Human, Mouse. Host: Rabbit.



Wester Blot (WB) of anti-MITF antibody
Dilution: WB (1/500 - 1/1000), IH (1/50 - 1/100)Western blot analysis of MITF (pS180) expression in U87MG (A), A549 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-MITF antibody
Dilution: WB: (1/500 - 1/1000), IH (1/50 - 1/100)Immunohistochemical analysis of MITF (pS180) staining in human heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



ELISA (EIA) of anti-MITF antibody
Dilution: WB (1/500 - 1/1000), IH (1/50 - 1/100)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MITF. It may not necessarily be applicable to this product.

NCBI GI #	4557755
NCBI GeneID	4286
NCBI Accession #	NP_000239.1
UniProt Primary Accession #	O75030
UniProt Secondary Accession #	Q14841; Q9P2V0; Q9P2V1; Q9P2V2; Q9P2Y8; B4DJL2; D3K197; E9PFN0
UniProt Related Accession #	O75030
GenBank Nucleotide #	NM_000248.3
NCBI Official Full Name	microphthalmia-associated transcription factor isoform 4
NCBI Official Synonym Full Names	microphthalmia-associated transcription factor
NCBI Official Symbol	MITF
NCBI Official Synonym Symbols	MI; WS2; CMM8; WS2A; bHLHe32
UniProt Protein Name	Microphthalmia-associated transcription factor
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 32
Protein Family	Microphthalmia-associated transcription factor
UniProt Gene Name	MITF

UniProt Synonym Gene Names	BHLHE32; bHLHe32
UniProt Entry Name	MITF_HUMAN
NCBI Protein Information	microphthalmia-associated transcription factor; class E basic helix-loop-helix protein 32
NCBI Summary for MITF	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, Jul 2008]
UniProt Comments for MITF	MITF: a transcription factor that contains both basic helix-loop-helix and leucine zipper structural features. Plays a critical role in the differentiation of various cell types including neural crest- derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium. Two isoforms are known: the M-isoform is expressed exclusively in melanocytes, while the A-isoform has a much broader range of expression. Mutations in MITF can lead to Waardenburg syndrome. Ten alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 3p14.2-p14.1 Cellular Component: protein complex; nucleus Molecular Function: protein dimerization activity; RNA polymerase II transcription factor activity, enhancer binding; protein binding; chromatin binding Biological Process: transcription from RNA polymerase II promoter; cell fate commitment; camera-type eye development; regulation of osteoclast differentiation; regulation of transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; melanocyte differentiation; protein complex assembly; positive regulation of transcription from RNA polymerase II promoter; osteoclast differentiation; negative regulation of transcription from RNA polymerase II promoter; bone remodeling; regulation of cell proliferation Disease: Albinism, Ocular, With Sensorineural Deafness; Waardenburg Syndrome, Type 2a; Melanoma, Cutaneous Malignant, Susceptibility To, 8; Tietz Syndrome
Research Articles on MITF	**1.** Melanomas with activation of the BRAF/MAPK pathway have suppressed levels of MITF and PGC1alpha and decreased oxidative metabolism
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