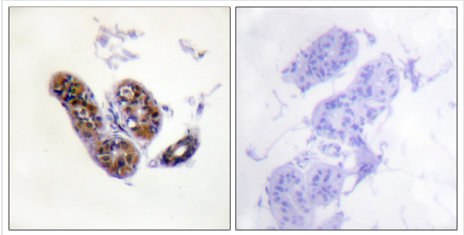
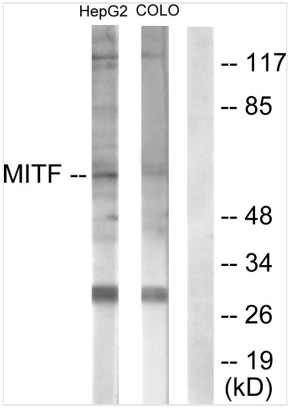
MITF Antibody

PRODUCT OVERVIEW

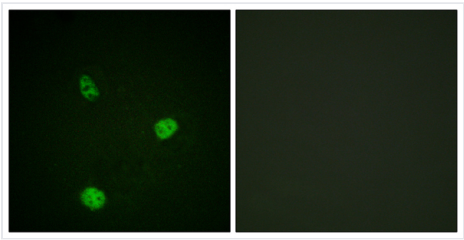
Product Name	MITF, Antibody
Full Product Name	MITF (Ab-180/73) Antibody
Product Gene Name	anti-MITF antibody
Product Synonym Names	MITF M1; Microphthalmia-associated transcription factor
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	MITF (Ab-180/73) antibody detects endogenous levels of total MITF protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	52,527 Da
OMIM	103470
3D Structure	ModBase 3D Structure for O75030
Immunogen	The antiserum was produced against synthesized non-phosphopeptide derived from human MITF around the phosphorylation site of serine 180/73 (P-N-SP-P-M).
Product Categories/Family for anti-MITF antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MITF antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-MITF antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:500 ELISA: 1:10000
Related Product Information for anti-MITF antibody	MBS853726 is an antibody targeting MITF. Also known as MITF (Ab-180/73) Antibody. Reactive in Human, Mouse.
Product References and Citations for anti-MITF antibody	Jón H. Hallsson, Genetics, May 2004; 167: 233-241. Eiichi Morii, Blood, Apr 2001; 97: 2038-2044. Eiichi Morii, Blood, Sep 2004; 104: 1656-1661.
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.



Testing Data of anti-MITF antibody
Peptide-+



Immunohistochemistry (IHC) of anti-MITF antibody
Immunohistochemistry analysis of paraffin-embedded human skin tissue using MITF (Ab-180/73) antibody. Western blot analysis of extracts from HepG2 cells (lane 1) and COLO205 cells (lane 2), using MITF (Ab-180/73) antibody.



Immunofluorescence (IF) of anti-MITF antibody
Peptide-+ Immunofluorescence analysis of HeLa cells, using MITF (Ab-180/73) antibody.

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	melanogenesis associated transcription factor
NCBI Official Symbol	MITF
NCBI Official Synonym Symbols	MI; WS2; CMM8; WS2A; COMMAD; bHLHe32
UniProt Protein Name	Microphthalmia-associated transcription factor
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 32; bHLHe32
Protein Family	Microphthalmia-associated transcription factor
UniProt Gene Name	MITF
UniProt Synonym Gene Names	BHLHE32; bHLHe32
NCBI Protein Information	microphthalmia-associated transcription factor

NCBI Summary for MITF	The protein encoded by this gene is a transcription factor that contains both basic helix-loop-helix and leucine zipper structural features. The encoded protein regulates melanocyte development and is 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. [provided by RefSeq, Aug 2017]
UniProt Comments for MITF	Transcription factor that regulates the expression of genes with essential roles in cell differentiation, proliferation and survival. Binds to M-boxes (5'-TCATGTG-3') and symmetrical DNA sequences (E-boxes) (5'-CACGTG-3') found in the promoters of target genes, such as BCL2 and tyrosinase (TYR). Plays an important role in melanocyte development by regulating the expression of tyrosinase (TYR) and tyrosinase-related protein 1 (TYRP1). Plays a critical role in the differentiation of various cell types, such as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium.
Research Articles on MITF	**1.** Data strongly suggest that glucose deprivation suppresses MITF expression through reactive oxygen species-induced ATF4 up-regulation, which in turn results in reduced melanoma cell proliferation.
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