

Datasheet for ABIN676373

**anti-MITF antibody (AA 351-450)****8** Images**4** Publications[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	MITF
Binding Specificity:	AA 351-450
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MITF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human MITF
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	MITF
Alternative Name:	Mitf ( <a href="#">MITF Products</a> )

## Target Details

Background:	<p>Synonyms: MI, WS2, CMM8, WS2A, bHLHe32, Microphthalmia-associated transcription factor, Class E basic helix-loop-helix protein 32, MITF</p> <p>Background: Transcription factor that regulates the expression of genes with essential roles in cell differentiation, proliferation and survival. Binds to symmetrical DNA sequences (E-boxes) (5'-CACGTG-3') found in the promoters of target genes, such as BCL2 and tyrosinase (TYR).</p> <p>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.</p>
Gene ID:	4286
UniProt:	<a href="#">O75030</a>
Pathways:	<a href="#">Chromatin Binding</a>

## Application Details

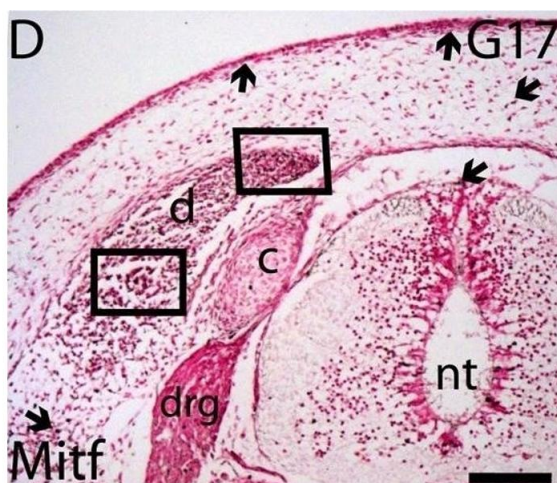
Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>IHC-P 1:200-400</p> <p>IF(IHC-P) 1:50-200</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

- Product cited in: Rice, Cebra-Thomas, Haugas, Partanen, Rice, Gilbert: "Melanoblast development coincides with the late emerging cells from the dorsal neural tube in turtle *Trachemys scripta*." in: **Scientific reports**, Vol. 7, Issue 1, pp. 12063, (2019) ([PubMed](#)).
- Kito, Saigo, Takeuchi: "Novel Transgenic Mouse Model of Polycystic Kidney Disease." in: **The American journal of pathology**, Vol. 187, Issue 9, pp. 1916-1922, (2017) ([PubMed](#)).
- Han, Sung, Lee: "Antimelanogenesis Activity of Hydrolyzed Ginseng Extract (GINST) via Inhibition of JNK Mitogen-activated Protein Kinase in B16F10 Cells." in: **Journal of food science**, Vol. 81, Issue 8, pp. H2085-92, (2016) ([PubMed](#)).

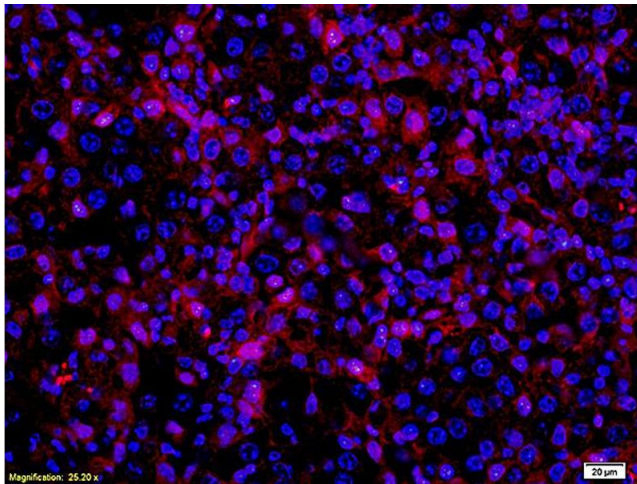
## Images



### Immunohistochemistry (Paraffin-embedded Sections)

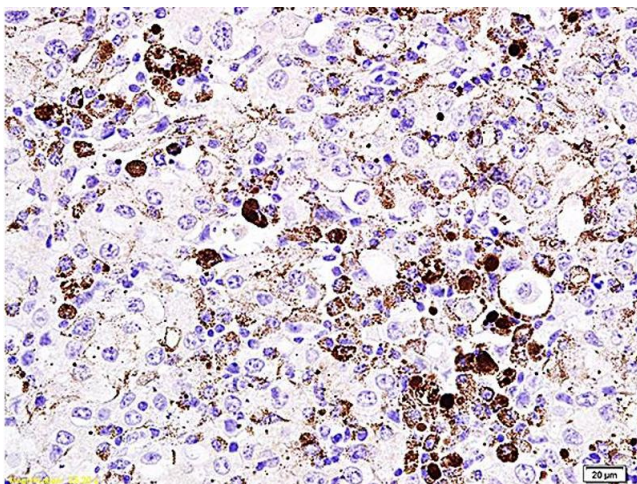
**Image 1.** Potential migratory pathways for late neural crest cells and melanoblasts. (A) Anti-HNK1 antibody indicated reappearance of migratory neural crest cells in the dorsal neural tube (\*) at G16. Paired round areas of HNK-1 positive cells were visible dorsolateral to the neural tube and adjacent to the surface ectoderm (black arrows). (B) At G17, HNK-1 positive cells appeared to follow two migratory pathways: a dorsolateral pathway underneath the surface ectoderm for some of the migratory cells and a pathway where cells travel from the CSA over the dermomyotome laterally (red arrow) or ventrally between the dermomyotome and the sclerotome (orange arrow). (C) PNA was not seen in the dorsal surface ectoderm, carapacial mesenchyme or in or around the dermomyotome, thus allowing entry of migratory neural crest cells to both dorsolateral and medial pathways. (D) Mitf-positive melanoblasts were visible on top of the neural tube, in the CSA, adjacent to the surface ectoderm and in the dermomyotome (boxed area shown in E) and in at G17. (E) The mediodorsal tip of dermomyotome had Mitf-positive

cells. (F) Mitf-positive cells were detectable between the dermomyotome and the sclerotome. (G) At G21, c-Kit-positive melanocytes were observed in both the dorsolateral and medial pathways. Some Mitf- and c-Kit-positive cells are indicated by arrows. Scale bar approx. 1 mm (A,B), 100µm (C,D) and 200µm (E). c, vertebral cartilage, d, dermomyotome, drg, dorsal root ganglion, l, lung, nt, neural tube, r, rib. - figure provided by CiteAb. Source: PMID28935865



#### Immunofluorescence

**Image 2.** Formalin-fixed and paraffin embedded mouse melanoma labeled with Anti- MITF Polyclonal Antibody, Unconjugated (ABIN676373) at 1:200 followed by conjugation to the secondary antibody Goat Anti-Rabbit IgG, PE conjugated used at 1:200 dilution for 40 minutes at 37°C and DAPI



#### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded mouse melanoma labeled with Anti- MITF Polyclonal Antibody, Unconjugated (ABIN676373) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN676373.