
Product Name: KD-Validated MITF Mouse Monoclonal Antibody**Catalog #: KVA00814**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1 kappa
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 58.8kDa

Antigen Information

Gene Name	MITF MITF; Melanocyte Inducing Transcription Factor; BHLHe32; Microphthalmia-Associated Transcription Factor; MI; Melanogenesis Associated Transcription Factor; Class E Basic Helix-
Alternative Names	Loop-Helix Protein 32; WS2A; WS2; Microphthalmia-Associated Transcription Factor; Homolog Of Mouse Microphthalmia; Waardenburg Syndrome, Type 2A; BHLHE32; COMMAD; MITF-A; CMM8
Gene ID	4286.0
SwissProt ID	O75030
Immunogen	Recombinant protein of human MITF

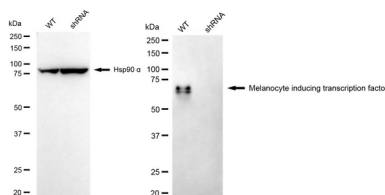
Background

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]

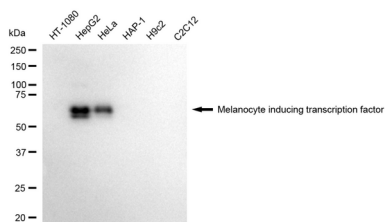
Research Area

Epigenetics and Nuclear Signaling, Immunology

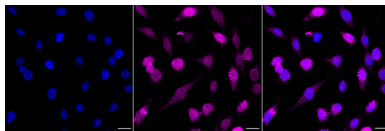
Image Data



Western blotting analysis using melanocyte inducing transcription factor antibody (KVA00814). Melanocyte inducing transcription factor expression in wild-type (WT) and melanocyte inducing transcription factor (MITF) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with melanocyte inducing transcription factor antibody (KVA00814, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using Melanocyte inducing transcription factor antibody (KVA00814). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Melanocyte inducing transcription factor antibody (KVA00814, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Melanocyte inducing transcription factor antibody (KVA00814, 1:1,000). Nuclei were stained blue with DAPI; Melanocyte inducing transcription factor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.