

Product datasheet for **AM10113SU-N**

MITF Mouse Monoclonal Antibody [Clone ID: C5+D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	C5+D5
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/50-1/200 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Melanoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	N-terminal fragment of Human Mi protein.
Specificity:	Clone D5 cocktail is especially designed for sensitive detection of Mi protein. it reacts with both melanocytic and non-melanocytic isoforms of Mi. Cellular Localization: Cytoplasmic.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant Stabilizer: 0.2% BSA Preservative: 15mM Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	melanogenesis associated transcription factor
Database Link:	Entrez Gene 4286 Human O75030



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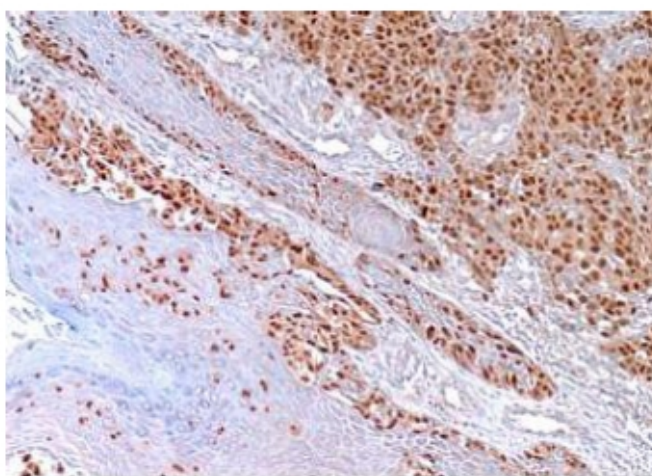
Background: Mi is a basic helix-loop-helix-leucine zipper (b-HLH-ZIP) transcription factor implicated in pigmentation, mast cells and bone development. The mutation of Mi causes Waardenburg Syndrome type II in humans. In mice, a profound loss of pigmented cells in the skin eye and inner ear results, as well as osteopetrosis and defects in natural killer and mast cells. There are two known isoforms of Mi differing by 66 amino acids at the NH2 terminus. Shorter forms are expressed in melanocytes and run as two bands at 52kDa and 56kDa, while the longer Mi form runs as a cluster of bands at 60-70kDa in osteoclasts and in B16 melanoma cells (but not other melanoma cell lines), as well as mast cells and heart.

Synonyms: Microphthalmia-associated transcription factor, Mi-protein

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Melanogenesis, Melanoma, Pathways in cancer

Product images:



Formalin-Fixed, Paraffin-Embedded Human melanoma stained with MITF antibody Cat.-No. AM10113SU-N using peroxidase conjugate and DAB chromogen. Note nuclear staining of tumor cells.