
Microphthalmia (MiTF) (C5/D5) Mouse Monoclonal Antibodies

Specificity: Human. Others not-known

Immunogen: N-terminal fragment of human Mi protein

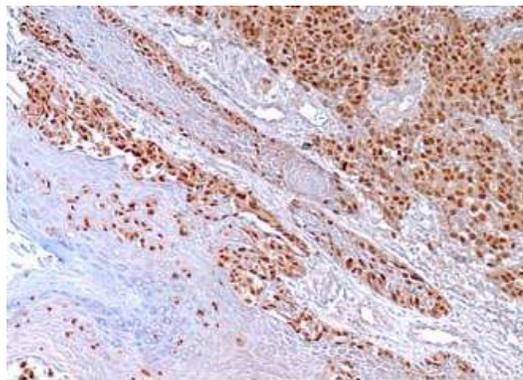
Ig Class: IgG₁/κ/ IgG₁/κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:50-200; *Positive Control:* Melanoma. *Cellular Localization:* Nuclear. *Intended Use:* In vitro diagnosis (IVD).

Description: 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. Clone D5 cocktail is especially designed for sensitive detection of Mi protein. C5 reacts with both melanocytic and non-melanocytic isoforms of Mi.

Supplied As: Purified antibody with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human melanoma stained with C5/D5 antibodies using peroxidase-conjugate and DAB chromogen. Note nuclear staining of tumor cells.

Cat. #Z2161 (1.0 ml)

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