

Mouse MiTF Monoclonal Antibody | anti-MiTF antibody

MiTF

CATALOG # AAA59252	HOST Mouse	REACTIVITY Human, Dog, Cat
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PRODUCT SYNONYMS

MiTF; Monoclonal Antibody; anti-MiTTF antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Dog, Cat
Clonality	Monoclonal
Isotype	IgG1/K
Clone Number	C5/D5
Control	Skin,Melanoma
Localization	Nuclear
Immunogen	N-terminal fragment of the human MiTF protein.
Reactivity Note	Paraffin, Frozen
Precautions	1.- For professional users only. Ensure results are interpreted by a medical professional. 2.-This product contains sodium azide(NaN_3, a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides.Upon disposal, flush with large volumes of water to prevent sodium azide build-up. 3.-Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents. 4.-Unused solutions should be disposed of according to local and federal regulations. 5.-Do not ingest reagent . If reagent ingeste, contact a poison control center immediately. 6.-For complete recommendations for handling biological specimens please refer to CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Laboratories".
Specimen Preparation	Paraffin sections:The antibody can be usen on formalin-fixed paraffin- embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation to ensure best results. Frozen sections and cell preparations: The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining Procedure

- 1.-Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positive charged slides such as Hydrophilic Plus Slides .
- 2.-Air dry for 2 hours at 58°C.
- 3.- Deparaffinize, dehydrate and rehydrate tissues.
- 4.- Subject tissues to heat epitoperetrieval using a suitable retrieval solutions such as ImmunoDNA Retriever with Citrate.
- 5.-Any of three heating methods may be used:
- A)TintoRetriever Pressure Cooker or Equivalent**

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high . Incubate for 15 min. Open and immediately transfer slides to room temperature.
- B)TintoRetriever PT Module or Water Bath Method**

Place tissues/ slides in a pre-warmed staining dish lor coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°C -99°C. Incubate for 30-60 min.
- C)Conventional Steamer Method.**

place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a Steamer, cover and steam for 30-60 min.
- 6.-After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 min.
- 7.-For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
- 8.-Wash slides with IHC wash buffer or DI water.
- 9.-Continue IHC staining protocol.

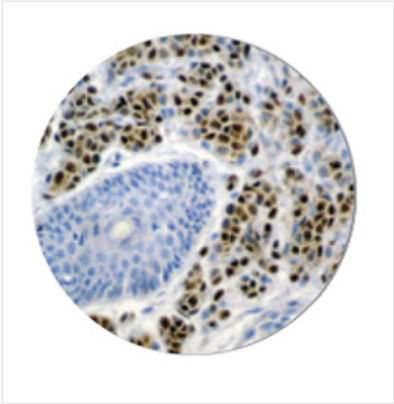
Preparation and Storage

Store at 2-8°C .Do not use after expiration date listen on package label. Temperature fluctutaions should be avoided.Store appropriately when not in used and avoid prolonged exposure to room temperature conditions.

IMAGES

Recommended IHC Protocol			
Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain	Varies	Varies	Varies

Application Data



IHC (Immunohistochemistry)

ADDITIONAL INFORMATION

Related Product Information for anti-MiTF antibody	This antibody is intended for use in Immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional. Microphthalmia-associated Transcription Factor (MiTF) is a basic helix-loop-helix leucine zipper transcription factor involved in melanocyte and osteoclast development. Mutations in MiTF cause auditory pigmentary syndromes, such as Waardenburg Syndrome Type II, Type IIa and Tietz Syndrome in humans. There are two known isoforms of MiTF differing by 66 amino acids at the NH2 terminus. Shorter forms are expressed in melanocytes and run as two bands at 52 kDa and 56 kDa, while the longer Mi form runs as a cluster of bands at 60-70 kDa in osteoclasts and in B16 Melonoma cells (but not other Melanoma cell lines), as well as mast cells and heart cells. MiTF 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. This antibody recognizes serine phosphorylated and non-phosphorylated melanocytic isoforms of microphthalmia. It is useful in identifying Malignant Melanoma, and distinguishing mast cell lesions from lesions of myeloid derivation. A relatively rare class of tumors known as PEComas (tumors showing perivascular epithelioid cell differentiation) express MiTF in a high percentage of cases (~90%).
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mitf-antibody-clone-c5-d5-elisa/59252>