

Product datasheet

Anti-MiTF antibody [SPM290] - BSA and Azide free ab212610

1 Image

Overview

Product name	Anti-MiTF antibody [SPM290] - BSA and Azide free	
Description	Mouse monoclonal [SPM290] to MiTF - BSA and Azide free	
Host species	Mouse	
Tested applications	Suitable for: IHC-P	
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat	
Immunogen	Recombinant fragment within Human MiTF (N terminal). The exact sequence is proprietary. Database link: 075030	
Positive control	Jurkat, A-431, HeLa or 501 Mel Human melanoma cells or Melanoma.	
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.	
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As	

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein G purified
Purification notes	ab212610 was purified from Bioreactor Concentrate.
Clonality	Monoclonal
Clone number	SPM290

lsotype	lgG1
Light chain type	kappa

Applications

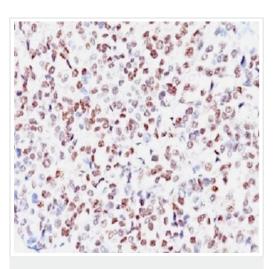
The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab212610 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.5 - 1 μ g/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target		
Function	Transcription factor for tyrosinase and tyrosinase-related protein 1. Binds to a symmetrical DNA sequence (E-boxes) (5'-CACGTG-3') found in the tyrosinase promoter. Plays a critical role in the differentiation of various cell types as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium.	
Tissue specificity	Isoform M is exclusively expressed in melanocytes and melanoma cells. Isoform A and isoform H are widely expressed in many cell types including melanocytes and retinal pigment epithelium (RPE). Isoform C is expressed in many cell types including RPE but not in melanocyte-lineage cells.	
Involvement in disease	Defects in MITF are the cause of Waardenburg syndrome type 2A (WS2A) [MIM:193510]. It is a dominant inherited disorder characterized by sensorineural hearing loss and patches of depigmentation. The features show variable expression and penetrance. Defects in MITF are a cause of Waardenburg syndrome type 2 with ocular albinism (WS2-OA) [MIM:103470]. It is an ocular albinism with sensorineural deafness. Defects in MITF are the cause of Tietz syndrome (TIETZS) [MIM:103500]. It is an autosomal dominant disorder characterized by generalized hypopigmentation and profound, congenital, bilateral deafness. Penetrance is complete.	
Sequence similarities	Belongs to the MiT/TFE family. Contains 1 basic helix-loop-helix (bHLH) domain.	
Post-translational modifications	Phosphorylation at Ser-405 significantly enhances the ability to bind the tyrosinase promoter.	
Cellular localization	Nucleus.	

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-MiTF antibody [SPM290] - BSA and Azide free (ab212610)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human melanoma labeling MiTF with ab212610 at 1 μ g/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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