MiTF Monoclonal Mouse Antibody (C5/D5)



Product Description

MITF (microphthalmia transcription factor) is a basic helix-loop-helix-leucine-zipper (bHLH-Zip) transcription factor that regulates the development and survival of melanocytes and retinal pigment epithelium, and also is involved in transcription of pigmentation enzyme genes such as tyrosinase TRP1 and TRP2. MITF has been shown to be phosphorylated by MAP kinase in response to c-kit activation, resulting in upregulation of MITF transcriptional activity. Mutations of the MITF gene are associated with the autosomal dominant hereditary deafness and pigmentation condition, Waardenburg Syndrome type 2A. Multiple isoforms of MITF exist, including MITF-A, MITF-B, MITF-C, MITF-H, and MITF-M, which differ in the amino-terminal domain and in their expression patterns. The MITF-M isoform is restricted to the melanocyte cell lineage. Anti-MITF, C5/D5, recognizes a nuclear protein, which is expressed in the majority of primary and metastatic epithelioid malignant melanomas as well as in normal melanocytes, benign nevi and dysplastic nevi. Primary antibodies are available purified, or with a selection of Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF® 405S and CF® 405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 0892, Anti-MiTF (C5/D5)

Call us: 800-304-5357

Antibody number	#0892		
Antibody reactivity	MiTF		
(target) Antibody type	Primary		
Host species	Mouse		
Clonality	Monoclonal		
Clone	C5/D5		
Isotype	IgG1, kappa		
Molecular weight	52-56 kDa (doublet)		
Synonyms	BHLHE32; Class E basic helix-loop-helix protein 32 (bHLHe32); CMM8; Mi; Microphthalmia-associated transcription factor; MITF; WS2; WS2A		
Human gene symbol	MITF		
Entrez gene ID	4286		
SwissProt	O75030		
Unigene	166017 & 618266		
Immunogen	NH2 terminus fragment of human Mi protein		
Antibody target cellular	Nucleus		
Verified antibody	IHC (FFPE) (verified)		
applications Species reactivity	Human		
Antibody application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Does not react with mouse or rat, others not tested, Immunofluory (formalin), Staining of formalin-fixed tissues exclines in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Optimal dilution for a specific application should be determined by user		
Positive control	Jurkat, A-431, HeLa or 501 Mel human melanoma cells or Melanoma		
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Shipping condition	Room temperature		
Shipping condition Storage Conditions			
	Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store		
Storage Conditions	Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as		
Storage Conditions Shelf life	Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended		
Storage Conditions Shelf life Regulatory status Antibody/conjugate	Room temperature Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Guaranteed for at least 24 months from date of receipt when stored as recommended For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purfiled: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: SA-free: 1 mg/mL in PBS/0.05% azide, Purfiled: 0.2 mg/mL in PBS/0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled: 0.5% Fee: 1 mg/mL in PBS/0.05% BSA/0.05% BSA/0.		

Email: btinfo@biotium.com

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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