

Cross-Reactivity Key

Trademarks and Patents

MITF (D3B4T) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IF-IC, ChIP, ChIP- seq, C&R, C&T	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 50-75	Source/Isotype: Rabbit IgG	UniProt ID: #O75030	Entrez-Gene Id: 4286
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits. The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652. The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.				
		Application Western Blotting Immunofluorescence Chromatin IP Chromatin IP-seq CUT&RUN CUT&Tag	(Immunocytochem	istry)	1:1	0
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensi	tivity	MITF (D3B4T) Rabbit mAb recognizes endogenous levels of total MITF protein.				
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human MITF protein.				
Background Microphthalmia-associated transcription factor (MITF) is a basic helix-loop-helix le transcription factor that is most widely known for its roles in melanocyte, ophthalr development (1-3). In humans, MITF can function as a melanoma oncogene (4) an corresponding MITF gene are associated with Waardenburg syndrome type 2, and syndrome characterized by developmental defects in cells derived from neural creatisoforms of MITF have been identified, which exhibit differential patterns of expressions tissue types (6).				anocyte, ophthalmi oncogene (4) and i lrome type 2, an au d from neural crest	c, and osteoclast mutations in the ditory-pigmentary (5). At least 12	
Background References		 Hershey, C.L. and Fisher, D.E. (2004) Bone 34, 689-96. Nomura, S. et al. (2001) J Bone Miner Metab 19, 183-7. Widlund, H.R. and Fisher, D.E. (2003) Oncogene 22, 3035-41. Levy, C. et al. (2006) Trends Mol Med 12, 406-14. Read, A.P. and Newton, V.E. (1997) J Med Genet 34, 656-65. Tachibana, M. (2000) Pigment Cell Res 13, 230-40. 				
Species Reactivit	ty	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	ffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	,	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag				

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H: Human M: Mouse Mk: Monkey

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