

	The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.	
	Application Western Blotting Immunofluorescence (Immunocytochemistry) Chromatin IP Chromatin IP-seq CUT&RUN CUT&RUN	Dilution 1:1000 1:100 - 1:200 1:50 1:50 1:50 1:50
Specificity/Sensitivity	MITF (D3B4T) Rabbit mAb recognizes endogenous levels of total MITF protein.	
Source / Purification	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 leucine zipper transcription factor that is most widely known for its roles in melanocyte, ophthalmic, and osteoclast development (1-3). In humans, MITF can function as a melanoma oncogene (4) and mutations in the corresponding <i>MITF</i> gene are associated with Waardenburg syndrome type 2, an auditory-pigmentary syndrome characterized by developmental defects in cells derived from neural crest (5). At least 12 isoforms of MITF have been identified, which exhibit differential patterns of expression among cell and tissue types (6).	
Background References	 Hershey, C.L. and Fisher, D.E. (2004) <i>Bone</i> 34, 689-96. Nomura, S. et al. (2001) <i>J Bone Miner Metab</i> 19, 183-7. Widlund, H.R. and Fisher, D.E. (2003) <i>Oncogene</i> 22, 3035-41. Levy, C. et al. (2006) <i>Trends Mol Med</i> 12, 406-14. Read, A.P. and Newton, V.E. (1997) <i>J Med Genet</i> 34, 656-65. Tachibana, M. (2000) <i>Pigment Cell Res</i> 13, 230-40. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved applicat	ion (e.g., western blot).
Western Blot Buffer	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	
Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey	
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