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# Datasheet for ABIN2780334 anti-MITF antibody (Middle Region)

2 Images

1 Publication



### Overview

Quantity:	100 μL
Target:	MITF
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Guinea Pig, Horse, Rabbit, Cow, Sheep, Zebrafish (Danio rerio), Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MITF antibody is un-conjugated
Application:	Western Blotting (WB)

# Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MITF
Sequence:	MGSKLEDILM DDTLSPVGVT DPLLSSVSPG ASKTSSRRSS MSMEETEHTC
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against MITF. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified
Target Details	
Target:	MITF

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Alternative Name:	MITF (MITF Products)
Background:	MITF is a transcription factor that contains both basic helix-loop-helix and leucine zipper
	structural features. It regulates the differentiation and development of melanocytes retinal
	pigment epithelium and is also responsible for pigment cell-specific transcription of the
	melanogenesis enzyme genes. Heterozygous mutations in the this gene cause auditory-
	pigmentary syndromes, such as Waardenburg syndrome type 2 and Tietz syndrome.
	Alternatively spliced transcript variants encoding different isoforms have been identified. This
	gene encodes a transcription factor that contains both basic helix-loop-helix and leucine zippe
	structural features. It regulates the differentiation and development of melanocytes retinal
	pigment epithelium and is also responsible for pigment cell-specific transcription of the
	melanogenesis enzyme genes. Heterozygous mutations in the this gene cause auditory-
	pigmentary syndromes, such as Waardenburg syndrome type 2 and Tietz syndrome.
	Alternatively spliced transcript variants encoding different isoforms have been identified.
	Alias Symbols: WS2A, MI, WS2, bHLHe32
	Protein Interaction Partner: EBP, STUB1, HK3, EPAS1, LEF1, APP, HINT1, ELAVL1, CDK2,
	SUMO2, PSMD14, MARK3, PIAS3, PIAS2, PIAS1, SUMO1, UBE2I, PAX3, OTX2, PAX6, PATZ1,
	GSK3B, TFEC, EP300, RPS6KA1, TFEB, MAPK14, TFE3, MAPK1, SPI1, FOS, CTNNB1, CDKN1A,
	RB1,
	Protein Size: 419
Molecular Weight:	47 kDa
Gene ID:	4286
NCBI Accession:	NM_000248, NP_000239
Pathways:	Chromatin Binding
Application Details	
Application Details	Optimal working dilutions should be determined experimentally by the investigator.
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator. Antigen size: 419 AA
Application Notes: Comment:	Antigen size: 419 AA
Application Notes: Comment: Restrictions:	Antigen size: 419 AA

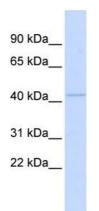
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# Handling

Buffer:	Liquid. Purified antibody supplied in $1x$ PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	
Product cited in:	Ursini, Cavalleri, Fazio, Angrisano, Iacovelli, Porcelli, Maddalena, Punzi, Mancini, Gelao, Romano,
	Masellis, Calabrese, Rampino, Taurisano, Di Giorgio, Keller, Tarantini, Sinibaldi, Quarto et al.: "
	BDNF rs6265 methylation and genotype interact on risk for schizophrenia" in: Epigenetics,

Vol. 11, Issue 1, pp. 11-23, (2016) (PubMed).

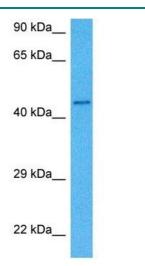
## Images



### Western Blotting

**Image 1.** WB Suggested Anti-MITF Antibody Titration: 0.2-1 ug/ml Positive Control: Hela cell lysate MITF is supported by BioGPS gene expression data to be expressed in HeLa

#### Images



#### Western Blotting

Image 2. Host: Mouse Target Name: MITF Sample Tissue:

Mouse Liver Antibody Dilution: 1ug/ml

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