Datasheet for ABIN2668714

anti-MITF antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	MITF
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunoprecipitation (IP), Electrophoretic Mobility-Shift Assay (EMSA), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq)

Product Details

Immunogen:	This MITF antibody was raised against an N-terminal fragment of human MITF.
Isotype:	IgG
Purification:	Protein G Chromatography

Target Details

Target:	MITF
Alternative Name:	MITF (MITF Products)
Molecular Weight:	52-56 kDa
Gene ID:	4286

Target Details

Pathways:	Chromatin Binding

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	1 µg/µL
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 and keep on ice when not in storage.
Storage:	-20 °C
Storage Comment:	Antibodies in solution can be stored at -20 °C for 2 years.
Expiry Date:	6 months

Publications

Product cited in:

Zhong, Wang, Li, Zhang, An, Hou: "Ten-Eleven Translocation-2 (Tet2) Is Involved in Myogenic Differentiation of Skeletal Myoblast Cells in Vitro." in: **Scientific reports**, Vol. 7, pp. 43539, (2017) (PubMed).

Page, Paoli, Moran Salvador, White, French, Mann: "Hepatic stellate cell transdifferentiation involves genome-wide remodeling of the DNA methylation landscape." in: **Journal of hepatology**, Vol. 64, Issue 3, pp. 661-73, (2016) (PubMed).

Pegoraro, Bafna, Davies, Shuker, Tauber: "DNA methylation changes induced by long and short photoperiods in Nasonia." in: **Genome research**, Vol. 26, Issue 2, pp. 203-10, (2016) (PubMed).

Marina, Sturgill, Bailly, Thenoz, Varma, Prigge, Nanan, Shukla, Haque, Oberdoerffer: "TET-catalyzed oxidation of intragenic 5-methylcytosine regulates CTCF-dependent alternative splicing." in: **The EMBO journal**, Vol. 35, Issue 3, pp. 335-55, (2016) (PubMed).

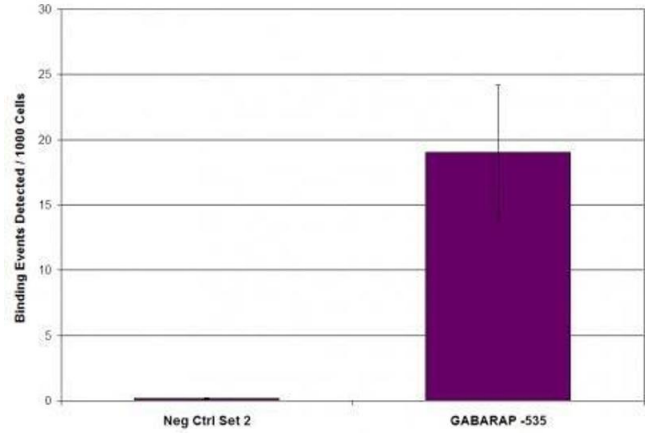
Publications

Brasa, Mueller, Jacquemont, Hahne, Rozenberg, Peters, He, McCormack, Gasparini, Chibout, Grenet, Moggs, Gomez-Mancilla, Terranova: "Reciprocal changes in DNA methylation and hydroxymethylation and a broad repressive epigenetic switch characterize FMR1 transcriptional silencing in fragile X syndrome." in: **Clinical epigenetics**, Vol. 8, pp. 15, (2016) (PubMed).

Images

Chromatin Immunoprecipitation

Image 1. MITF antibody (mAb) tested by ChIP-Seq. (ChIP) was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) and chromatin from a human melanoma cell line (2.5 million cells). ChIP DNA was sequenced on the Illumina GA II and 19 million sequence tags were mapped to identify MITF binding sites across the genome. The image shows hundreds of MITF binding sites across a 60 million bp region on chromosome 9.



ChIP DNA-Sequencing

Image 2. MITF antibody (mAb) tested by ChIP. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with 30 µg of chromatin from human lung melanoma cell line MALME-3M and 4 µg of MITF antibody. ChIP DNA was used in qPCR with the control primer pairs or gene-specific primer pairs as indicated. Data are presented as Binding Events Detected per 1000 Cells using Active Motif's Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.