

Human Microphthalmia Associated Transcription Factor (MITF) ELISA Kit | MITF elisa kit

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CATALOG #
AAA187345

REACTIVITY
Human

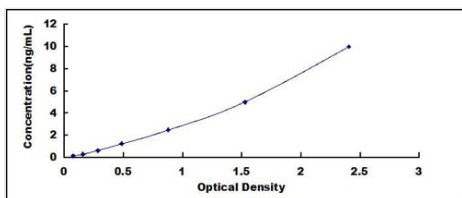
PRODUCT SYNONYMS

Microphthalmia Associated Transcription Factor (MITF); Human Microphthalmia Associated Transcription Factor (MITF) ELISA Kit; WS2A; MI; bHLHe32; Homolog Of Mouse Microphthalmia; Class E basic helix-loop-helix protein 32; MITF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Microphthalmia Associated Transcription Factor (MITF). No significant cross-reactivity or interference between Microphthalmia Associated Transcription Factor (MITF) and analogues was observed.
Sequence Length	468
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.055ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Microphthalmia Associated Transcription Factor (MITF) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Microphthalmia Associated Transcription Factor (MITF) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MITF elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Microphthalmia Associated Transcription Factor (MITF). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Microphthalmia Associated Transcription Factor (MITF). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Microphthalmia Associated Transcription Factor (MITF), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Microphthalmia Associated Transcription Factor (MITF) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7684294
NCBI GeneID	4286
UniProt Accession #	O75030; Q14841; Q9P2V0; Q9P2V1; Q9P2V2; Q9P2Y8; B4DJL2; D3K197; E9PFN0
Molecular Weight	52,527 Da
NCBI Official Full Name	microphthalmia-associated transcription factor, partial
NCBI Official Synonym Full Names	melanogenesis associated transcription factor
NCBI Official Symbol	MITF
NCBI Official Synonym Symbols	MI; WS2; CMM8; WS2A; COMMAD; bHLHe32
NCBI Protein Information	microphthalmia-associated transcription factor
UniProt Protein Name	Microphthalmia-associated transcription factor
UniProt Gene Name	MITF
UniProt Synonym Gene Names	BHLHE32; bHLHe32

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.