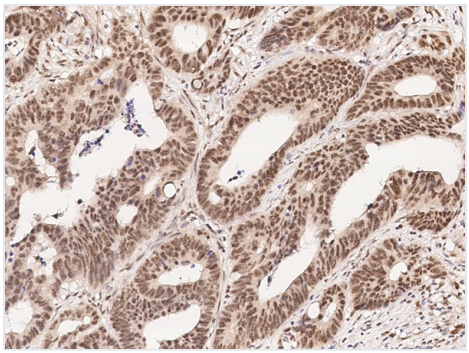
MYT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MYT1, Polyclonal Antibody
Full Product Name	Anti-MYT1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-MYT1 antibody
Product Synonym Names	MYT1 Antibody, Rabbit PAb, Antigen Affinity Purified; Anti-C20orf36 Antibody; Anti-MTF1 Antibody; Anti-MYTI Antibody; Anti-PLPB1 Antibody; Anti-ZC2HC4A Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human MYT1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	125,075 Da
OMIM	600379
3D Structure	ModBase 3D Structure for Q01538
Immunogen	A synthetic peptide corresponding to the center region of the Human MYT1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human MYT1, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-MYT1 antibody	Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-MYT1 antibody	IHC-P: 1:500-1:2000
Related Product Information for anti-MYT1 antibody	MYT1, encoding the myelin transcription factor 1, was reported as the first gene involved in OAVS, within the retinoic acid (RA) pathway. MYT1 overexpression downregulated all RA receptors genes (RARA, RARB, RARG), involved in RA-mediated transcription, whereas no effect was observed on CYP26A1 expression, the major enzyme involved in RA degradation. Oculo-auriculo-vertebral spectrum (OAVS) is a developmental disorder characterized by hemifacial microsomia associated with ear, eyes and vertebrae malformations showing highly variable expressivity.MYT1 is the first gene implicated in OAVS, within the RA signalling pathway. The MYT1 immunoreactivity was frequently nuclear, appearing as dotted or punctate, but in some cases it was localized to the cytoplasm.
Other Notes	Small volumes of anti-MYT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYT1 purchase	MBS8101447 is an antibody targeting MYT1. Also known as Anti-MYT1 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-MYT1 antibody
Immunochemical staining of human MYT1 in human brain with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



Immunohistochemistry (IHC) of anti-MYT1 antibody
Immunochemical staining of human MYT1 in human colon carcinoma with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYT1. It may not necessarily be applicable to this product.

NCBI GI #	17975763
NCBI GeneID	4661
NCBI Accession #	NP_004526.1
UniProt Primary Accession #	Q01538
UniProt Secondary Accession #	O94922; Q7Z5W2; Q9UPV2; E1P5H0; F5H7M8
UniProt Related Accession #	Q01538
GenBank Nucleotide #	NM_004535.2
NCBI Official Full Name	myelin transcription factor 1
NCBI Official Synonym Full Names	myelin transcription factor 1
NCBI Official Symbol	MYT1
NCBI Official Synonym Symbols	MTF1; MYTI; NZF2; PLPB1; ZC2HC4A; C20orf36
UniProt Protein Name	Myelin transcription factor 1
UniProt Synonym Protein Names	Myelin transcription factor I; MyTI; PLPB1; Proteolipid protein-binding protein
Protein Family	Myelin transcription factor
UniProt Gene Name	MYT1
UniProt Synonym Gene Names	KIAA0835; KIAA1050; MTF1; MYTI; PLPB1; MyT1; MyTI
UniProt Entry Name	MYT1_HUMAN
NCBI Protein Information	myelin transcription factor 1; myelin transcription factor I; proteolipid protein binding protein; proteolipid protein-binding protein; neural zinc finger transcription factor 2
NCBI Summary for MYT1	The protein encoded by this gene is a member of a family of neural specific, zinc finger-containing DNA-binding proteins. The protein binds to the promoter regions of proteolipid proteins of the central nervous system and plays a role in the developing nervous system. [provided by RefSeq, Jul 2008]

UniProt Comments for MYT1	PLPB1: Binds to the promoter regions of proteolipid proteins of the central nervous system. May play a role in the development of neurons and oligodendrogalia in the CNS. May regulate a critical transition point in oligodendrocyte lineage development by modulating oligodendrocyte progenitor proliferation relative to terminal differentiation and up-regulation of myelin gene transcription. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 20q13.33 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: zinc ion binding; transcription factor activity Biological Process: nervous system development; regulation of transcription, DNA-dependent; transcription, DNA-dependent; cell differentiation
Research Articles on MYT1	**1.** although depletion of MYT1 alone did not affect long-term cell growth, it potentiated with DNA damage to inhibit cell growth in clonogenic survival and tumor xenograft models
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