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TBL1X Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant TBL1X.
Catalog # AT4162a

Product Information

Application	IHC, E
Primary Accession	O60907
Other Accession	NM_005647
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2B6
Calculated MW	62496

Additional Information

Gene ID	6907
Other Names	F-box-like/WD repeat-containing protein TBL1X, SMAP55, Transducin beta-like protein 1X, Transducin-beta-like protein 1, X-linked, TBL1X, TBL1
Target/Specificity	TBL1X (NP_005638, 478 a.a. ~ 577 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TBL1X Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

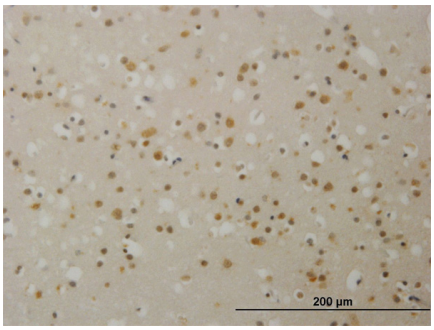
Background

The protein encoded by this gene has sequence similarity with members of the WD40 repeat-containing protein family. The WD40 group is a large family of proteins, which appear to have a regulatory function. It is believed that the WD40 repeats mediate protein-protein interactions and members of the family are involved in signal transduction, RNA processing, gene regulation, vesicular trafficking, cytoskeletal assembly and may play a role in the control of cytotypic differentiation. This encoded protein is found as a subunit in corepressor SMRT (silencing mediator for retinoid and thyroid receptors) complex along with histone deacetylase 3 protein. This gene is located adjacent to the ocular albinism gene and it is thought to be involved in the pathogenesis of the ocular albinism with late-onset sensorineural deafness phenotype. Four transcript variants encoding two different isoforms have been found for this gene. This gene is highly similar to the Y chromosome TBL1Y gene.

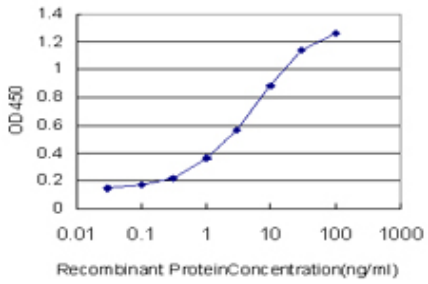
References

TBL1 and TBLR1 phosphorylation on regulated gene promoters overcomes dual CtBP and NCoR/SMRT transcriptional repression checkpoints. Perissi V, et al. Mol Cell, 2008 Mar 28. PMID 18374649.Histone deacetylase 3 localizes to the mitotic spindle and is required for kinetochore-microtubule attachment. Ishii S, et al. Proc Natl Acad Sci U S A, 2008 Mar 18. PMID 18326024.TBL1-TBLR1 and beta-catenin recruit each other to Wnt target-gene promoter for transcription activation and oncogenesis. Li J, et al. Nat Cell Biol, 2008 Feb. PMID 18193033.Novel functional features of the Lis-H domain: role in protein dimerization, half-life and cellular localization. Gerlitz G, et al. Cell Cycle, 2005 Nov. PMID 16258276.Reading and function of a histone code involved in targeting corepressor complexes for repression. Yoon HG, et al. Mol Cell Biol, 2005 Jan. PMID 15601853.

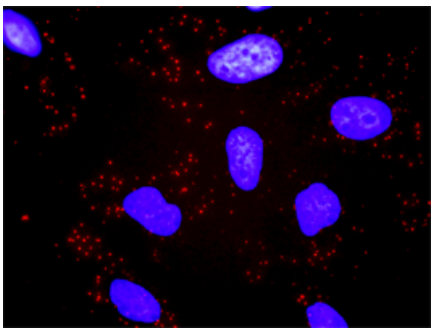
Images



Immunoperoxidase of monoclonal antibody to TBL1X on formalin-fixed paraffin-embedded human cerebral cortex. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged TBL1X is approximately 0.3ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between CACYBP and TBL1X HeLa cells were stained with anti-CACYBP rabbit purified polyclonal 1:1200 and anti-TBL1X mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.