

TBL1XR1 monoclonal antibody

Catalog: MB66499

Host: Mouse

Reactivity: Human, Mouse

Background:

Transducing β -like protein 1 (TBL1X/TBL1) and TBL1-related protein 1 (TBL1XR1/TBLR1) were originally identified as subunits of the co-repressor silencing mediator for retinoic and thyroid hormone receptor (SMRT) and nuclear receptor co-repressor (NCoR) complexes. These two factors are required for the exchange of co-repressor complexes for co-activators by acting as adaptors to recruit the ubiquitin/proteasome machinery that degrades the co-repressor proteins during ligand mediated activation of transcription. Co-factor exchange driven by TBL1X/TBL1 and TBL1XR1/TBLR1 appears to be the mechanism by which c-Jun and NF- κ B mediated transcription is activated and is therefore likely to be the mechanism employed by other signal-dependent transcription factors as well. In addition, both TBL1X/TBL1 and TBL1XR1/TBLR1 have essential roles in regulating the Wnt-signaling pathway by recruiting β -catenin to Wnt target genes to activate transcription. Depletion of TBL1X-TBL1XR1 significantly inhibited Wnt-beta-catenin- induced gene expression and oncogenic growth in vitro and in vivo. Research studies have shown that upregulation of TBL1XR/TBLR1 is observed in a variety of solid tumors, and is correlated with advanced tumor stage, metastasis and poor prognosis.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 60 kDa

Swiss-Prot:

Q9BZK7

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/ICC (1/50 - 1/100)

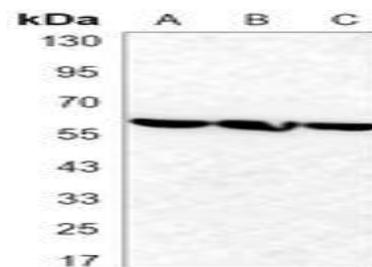
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

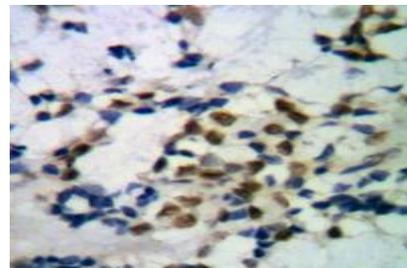
Specificity:

Recognizes endogenous levels of TBL1XR1 protein.

DATA:



Western blot analysis of TBL1XR1 expression in mouse brain (A), mouse heart (B), K562 (C) whole cell lysates.



Immunohistochemical analysis of TBL1XR1 staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.32). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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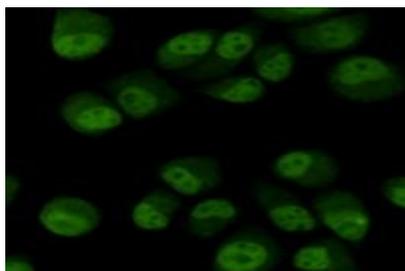
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Immunofluorescent analysis of TBL1XR1 staining in HeLa cells. For-

malin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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