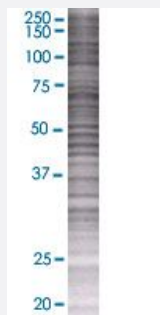


PPP1R12B 293T Cell Transient Overexpression Lysate(Denatured)

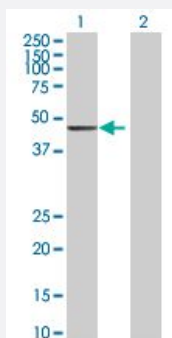
Catalog # H00004660-T02 Size 100 uL

Applications



SDS-PAGE Gel

PPP1R12B transfected lysate.



Western Blot

Lane 1: PPP1R12B transfected lysate (42.57 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-PPP1R12B full-length
Host	Human
Theoretical MW (kDa)	42.57

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-PPP1R12B antibody ([H00004660-B02](#)) by Western Blots.
SDS-PAGE Gel
PPP1R12B transfected lysate.
Western Blot
Lane 1: PPP1R12B transfected lysate (42.57 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — PPP1R12B

Entrez GeneID[4660](#)**GeneBank Accession#**[ENST00000356764](#)**Protein Accession#**[ENSP00000349206](#)**Gene Name**

PPP1R12B

Gene Alias

MGC131980, MGC87886, MYPT2

Gene Description

protein phosphatase 1, regulatory (inhibitor) subunit 12B

Omim ID[603768](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Myosin light chain phosphatase (MLCP) consists of three subunits- catalytic subunit, large subunit /myosin binding subunit (MBS) and small subunit (sm-M20). This gene is a multi-functional gene which encodes both MBS and sm-M20. MLCP regulates myosins and the dephosphorylation is enhanced by the presence of MBS. The sm-M20 is suggested to play a regulatory role in muscle contraction by binding to MBS. MBS is also encoded by another gene, myosin light chain phosphatase target subunit 1. sm-M20 shows higher binding affinity to this gene product than to myosin light chain phosphatase target subunit 2-MBS even though the two MBS proteins are highly similar. Although both MBSs increase the activity of MLCP, myosin light chain phosphatase target subunit 1-MBS is a more efficient activator. There are four alternatively spliced transcript variants described ; two alter the MBS coding region and two alter the sm-M20 coding region of this gene. [provided by RefSeq]

Other Designations

myosin phosphatase regulatory subunit|myosin phosphatase, target subunit 2

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Cerebral Hemorrhage](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Intracranial Hemorrhages](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Tobacco Use Disorder](#)