

Datasheet for ABIN7563766  
**PRDM6 Protein (AA 1-596) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	PRDM6
Protein Characteristics:	AA 1-596
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRDM6 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Prdm6 Protein expressed in mammalien cells.
Sequence:	<p>MLKPGDPGGS AFLKVDPAYL QHWQQLFPHG GGGGGPLKAS GAALALGAPQ PLQPPPPPPP          PPPERAEMPP DGLRPRPASL SSTPAPSSTS ASSASSCAAA AAAAALAGLS ALPVAQMPVF          APLAAAAVAA EPLPPKDLCL GASAGGPAK CGGGGGSVGD GRGVPRFRCS AEELDYLYG          QQRMEIPLN QHTSDPNNRC DMCADNRNGE CPMHGPHSL RRLVGTSSAA AAAPPELPE          WLRDLPREVC LCTSTVPGLA YGICAAQRIQ QGTWIGPFQG VLLSPEKVQT GVVRNTQHLW          EIYDQDGLTQ HFIDGGEPSK SSWMRYIRCA RHCGEQNLTV VQYRSNIFYR ACIDIPRGTE          LLVWYNDSTY SFFGIPLQCI AQDENLNVPS TVMEAMCRQD ALQPFNKSSK LSPSGQQRSV          VFPQTCSRN FSLLDKSGPM EAGFNQINVK NQRVLASPTS TSQLHSEFSD WHLWKCGQCF          KTFTQRILLQ MHVCTQNPDR PYQCGHCSQS FSQPSELRNH VVTHSSDRPF KCGYCGRAFA          GATTLNNHIR THTGEKPFKC ERCERSFTA TQLSRHQRMF NECKPITESP ESIEVD <b>Sequence</b>  <b>without tag. The proposed Purification-Tag is based on experiences with the expression</b></p>

**system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

---

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

---

### Grade:

custom-made

---

## Target Details

---

### Target:

PRDM6

---

### Alternative Name:

Prdm6 ([PRDM6 Products](#))

---

### Background:

Putative histone-lysine N-methyltransferase PRDM6 (EC 2.1.1.361) (PR domain zinc finger protein 6) (PR domain-containing protein 6) (PR domain-containing protein in smooth muscle),FUNCTION: Putative histone methyltransferase that acts as a transcriptional repressor of smooth muscle gene expression (PubMed:16537907, PubMed:17662997). Promotes the transition from differentiated to proliferative smooth muscle by suppressing differentiation and maintaining the proliferative potential of vascular smooth muscle cells (PubMed:27181681, PubMed:16537907, PubMed:17662997). Also plays a role in endothelial cells by inhibiting endothelial cell proliferation, survival and differentiation. It is unclear whether it has histone methyltransferase activity in vivo. According to some authors, it does not act as a histone methyltransferase by itself and represses transcription by recruiting EHMT2/G9a (PubMed:16537907). According to others, it possesses histone methyltransferase activity when

---

## Target Details

---

associated with other proteins and specifically methylates 'Lys-20' of histone H4 in vitro. 'Lys-20' methylation represents a specific tag for epigenetic transcriptional repression (PubMed:17662997). {ECO:0000269|PubMed:16537907, ECO:0000269|PubMed:17662997, ECO:0000269|PubMed:27181681}.

Molecular Weight: 64.5 kDa

UniProt: [Q3UZD5](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

## Application Details

---

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

---

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months