

Recombinant Mouse Ppp1r16b Protein, Myc/DDK-tagged

Cat. No. Ppp1r16b-5066M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein phosphatase 1, regulatory subunit 16B (Ppp1r16b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulator of protein phosphatase 1 (PP1) that acts as a positive regulator of pulmonary endothelial cell (EC) barrier function. Protects the endothelial barrier from lipopolysaccharide (LPS)-induced vascular leakage. Involved in the regulation of the PI3K/AKT signaling pathway. Involved in the regulation of angiogenesis and endothelial cell proliferation through the control of ECE1 dephosphorylation, trafficking and activity. Involved in the regulation of endothelial cell filopodia extension. May be a downstream target for TGF-beta1 signaling cascade in endothelial cells. Involved in PKA-mediated moesin dephosphorylation which is important in EC barrier protection against thrombin stimulation. Promotes the interaction of PPP1CA with RPSA/LAMR1 and in turn facilitates the dephosphorylation of RPSA/LAMR1. Involved in the dephosphorylation of EEF1A1.
Molecular Mass	63.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Ppp1r16b protein phosphatase 1, regulatory subunit 16B [Mus musculus (house mouse)]
Official Symbol	Ppp1r16b
Synonyms	Ppp1r16b; protein phosphatase 1, regulatory subunit 16B; ANK; Wdt4; TIMAP; ANKRD4; C130078N17Rik; protein phosphatase 1 regulatory inhibitor subunit 16B; CAAX box protein TIMAP; TGF-beta-inhibited membrane-associated protein; protein phosphatase 1, regulatory (inhibitor) subunit 16B; whn-dependent transcript 4
Gene ID	228852
mRNA Refseq	NM_001159662
Protein Refseq	NP_001153134
UniProt ID	Q8VHQ3