

Recombinant Mouse Pqbp1 Protein, Myc/DDK-tagged

Cat. No. Pqbp1-5090M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length polyglutamine binding protein 1 (Pqbp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Intrinsically disordered protein that acts as a scaffold, and which is involved in different processes, such as pre-mRNA splicing, transcription regulation, innate immunity and neuron development. Interacts with splicing-related factors via the intrinsically disordered region and regulates alternative splicing of target pre-mRNA species May suppress the ability of POU3F2 to transactivate the DRD1 gene in a POU3F2 dependent manner. Can activate transcription directly or via association with the transcription machinery. May be involved in ATXN1 mutant-induced cell death. The interaction with ATXN1 mutant reduces levels of phosphorylated RNA polymerase II large subunit. Involved in the assembly of cytoplasmic stress granule, possibly by participating in the transport of neuronal RNA granules. Also acts as an innate immune sensor of infection by retroviruses, by detecting the presence of reverse-transcribed DNA in the cytosol. Directly binds retroviral reverse-transcribed DNA in the cytosol and interacts with CGAS, leading to activate the cGAS-STING signaling pathway, triggering type-I interferon production.
Molecular Mass	30.6 kDa

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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.
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	Pqbp1 polyglutamine binding protein 1 [Mus musculus (house mouse)]
Official Symbol	Pqbp1
Synonyms	PQBP1; polyglutamine binding protein 1; polyglutamine-binding protein 1; scurfy candidate 2; polyglutamine tract-binding protein 1; 38 kDa nuclear protein containing a WW domain; Sfc2; npw38; PQBP-1
Gene ID	54633
mRNA Refseq	NM_019478
Protein Refseq	NP_062351
UniProt ID	Q91VJ5

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