## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-265aa
UniProt No.
060828

## NCBI Accession No.

NP_005701.1

## Alternative Names

Polyglutamine binding protein 1, MRX55, MRXS3, MRXS8, NPW38, RENS1, SHS

## PRODUCT SPECIFICATION

## Molecular Weight

33 kDa (289aa) confirmed by MALDI-TOF

## Concentration

$0.5 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20 mM Tris- HCl buffer (pH 8.0) containing $0.1 \mathrm{M} \mathrm{NaCl}, 20 \%$ glycerol, 1 mM DTT

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80 C . Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

Polyglutamine binding protein 1, also known as PQBP1, is a transcription repressor that associates with polyglutamine tract-containing transcription regulators and causative genes for neurodegenerative disorders. PQBP-1 localizes to the nucleus and is present in neurons throughout the brain, with abundant levels in hippocampus, cerebellar cortex and olfactory bulb. PQBP-1 contains a WWP/WW domain that binds proline-rich motifs and a C2 domain that can influence Ca2+-dependent phospholipid signaling. Recombinant human PQBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional
chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MPLPVA LQTRLAKRGI LKHLEPEPEE EIIAEDYDDD PVDYEATRLE GLPPSWYKVF DPSCGLPYYW NADTDLVSWL SPHDPNSVVT KSAKKLRSSN ADAEEKLDRS HDKSDRGHDK SDRSHEKLDR GHDKSDRGHD KSDRDRERGY DKVDRERERD RERDRDRGYD KADREEGKER RHHRREELAP YPKSKKAVSR KDEELDPMDP SSYSDAPRGT WSTGLPKRNE AKTGADTTAA GPLFQQRPYP SPGAVLRANA EASRTKQQD

## General References

Waragai M., et al. (1999) Hum Mol Genet. 8:977-987.
Waragai M C., et al. (2000) Biochem Biophys Res. 273: 592-595.

## DATA

## SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

