

## PQBP1 Human

**Description:** PQBP1 Human Recombinant produced in E. coli is a single polypeptide chain containing 289 amino acids (1-265) and having a molecular mass of 33.0kDa. PQBP1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-1108

**Synonyms:** Golyglutamine binding protein 1, Polyglutamine tract-binding protein 1, 38kDa nuclear protein containing a WW domain, mental retardation X-linked 55, Sutherland-Haan X-linked mental retardation syndrome, Npw38, MRXS3, MRX55, MRXS8, RENS1, SHS.

For research use only.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMPLPVA LQTRLAKRGI  
LKHLEPEPEE EIIAEDYDDD PVDYEATRLE GLPPSWYKVF DPSCGLPYYW NADTDLVSWL  
SPHDPNSVVT KSAKCLRSSN ADAEEKLDRS HDKSDRGHDK SDRSHEKLDR GHDKSDRGHD  
KSDRDRERGY DKVDRERERD RERDRDRGYD KADREEGKER RHHRREELAP YPKSKKAVSR  
KDEELDPMDP SS

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The PQBP1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 100mM NaCl and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

PQBP1 is a transcription repressor which is connected to polyglutamine tract-containing transcription regulators and connective genes for neurodegenerative disorders. PQBP1 restricts to the nucleus and can be found in neurons all over the brain, with high levels in hippocampus, olfactory bulb and cerebellar cortex. PQBP1 holds a WWP/WW domain that binds proline-rich motifs and a C2 domain which is able to stimulate Ca<sup>2+</sup>-dependent phospholipid signaling.

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