

PQBP-1 (C-20): sc-26054

BACKGROUND

Polyglutamine(Q) tract binding protein-1 (PQBP-1) is a transcription repressor that associates with polyglutamine tract-containing transcription regulators and causative genes for neurodegenerative disorders. Hepta- and di-amino acid repeat sequences rich in polar residues are essential for PQBP-1 to interact with polyglutamine tract-containing proteins (i.e., huntingtin, androgen receptor and Brain-2). PQBP-1 contains a WWP/WW domain that binds proline-rich motifs and a C2 domain that can influence Ca²⁺-dependent phospholipid signaling. PQBP-1 localizes to the nucleus and is present in neurons throughout the brain, with abundant levels in hippocampus, cerebellar cortex and olfactory bulb. The human PQBP-1 gene maps to chromosome Xp11.23.

CHROMOSOMAL LOCATION

Genetic locus: PQBP1 (human) mapping to Xp11.23; Pqbp1 (mouse) mapping to X A1.1.

SOURCE

PQBP-1 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of PQBP-1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-26054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-26054 X, 200 µg/0.1 ml.

APPLICATIONS

PQBP-1 (C-20) is recommended for detection of PQBP-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PQBP-1 (C-20) is also recommended for detection of PQBP-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PQBP-1 siRNA (h): sc-38199, PQBP-1 siRNA (m): sc-38200, PQBP-1 shRNA Plasmid (h): sc-38199-SH, PQBP-1 shRNA Plasmid (m): sc-38200-SH, PQBP-1 shRNA (h) Lentiviral Particles: sc-38199-V and PQBP-1 shRNA (m) Lentiviral Particles: sc-38200-V.

PQBP-1 (C-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

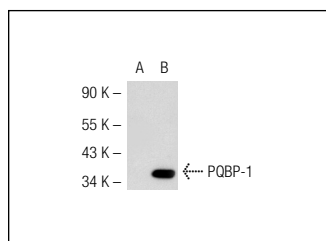
Molecular Weight of PQBP-1: 38 kDa.

Positive Controls: Sol8 nuclear extract: sc-2157 or PQBP-1 (m): 293T Lysate: sc-122739.

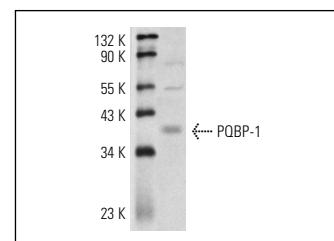
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PQBP-1 (C-20): sc-26054. Western blot analysis of PQBP-1 expression in non-transfected: sc-117752 (A) and mouse PQBP-1 transfected: sc-122739 (B) 293T whole cell lysates.



PQBP-1 (C-20): sc-26054. Western blot analysis of PQBP-1 expression in Sol8 nuclear extract.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **PQBP-1 (B-9): sc-374260** or **PQBP-1 (G-12): sc-376039**, our highly recommended monoclonal alternatives to PQBP-1 (C-20).