

PGBD4 (C-20): sc-248236

BACKGROUND

Initially characterized in the cabbage looper moth, *Trichoplusia ni*, the PGBD (piggyBac transposable element-derived) family is comprised of a group of transposases that are conserved in a wide variety of species, including protozoa and primates. More specifically, while PGBD3 and PGBD4 are primate-specific genes, the other three members of the PGBD family (namely PGBD1, PGBD2 and PGBD5) are conserved among a variety of vertebrates. PGBD4 (piggyBac transposable element derived 4) is a 585 amino acid protein that carries a potentially active catalytic site. PGBD4 is comprised of a single ORF/exon without introns and appears to be derived from the MER75 transposon, which is now represented in the human genome by many internally deleted copies. The gene that encodes PGBD4 maps to human chromosome 15q14.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PGBD4 (human) mapping to 15q14.

SOURCE

PGBD4 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PGBD4 of human origin.

STORAGE

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

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-248236 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PGBD4 (C-20) is recommended for detection of PGBD4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other PGBD family members.

Suitable for use as control antibody for PGBD4 siRNA (h): sc-90040, PGBD4 shRNA Plasmid (h): sc-90040-SH and PGBD4 shRNA (h) Lentiviral Particles: sc-90040-V.

Molecular Weight of PGBD4: 67 kDa.

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) 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.

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.