

PIG-S (D-19): sc-54979

BACKGROUND

Phosphatidylinositol-glycans (PIGs) are multi-pass transmembrane proteins that localize to the endoplasmic reticulum. PIGs exhibit various functions but all are crucial for the biosynthesis of the glycosylphosphatidylinositol (GPI)-anchor. Some PIG proteins are components of the GPI transamidase (GPIT) complex and play a role in the recognition of either the GPI attachment signal or the lipid portion of GPI. Other PIGs belong to the glycosyltransferase complex and function in the transfer of N-acetylglucosamine (GlcNAc) to phosphatidylinositol (PI). A variety of other PIGs play distinct roles in GPI synthesis. PIG-S is a component of GPIT, a multisubunit membrane-bound complex that recognizes the C-terminal signal sequences on proproteins, cleaves them and replaces them with specific GPI lipids. PIG-S is required for the generation of the carbonyl intermediate.

CHROMOSOMAL LOCATION

Genetic locus: PIGS (human) mapping to 17q11.2; Pigs (mouse) mapping to 11 B5.

SOURCE

PIG-S (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PIG-S 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-54979 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

PIG-S (D-19) is recommended for detection of PIG-S 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).

PIG-S (D-19) is also recommended for detection of PIG-S in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PIG-S siRNA (h): sc-62808, PIG-S siRNA (m): sc-62809, PIG-S shRNA Plasmid (h): sc-62808-SH, PIG-S shRNA Plasmid (m): sc-62809-SH, PIG-S shRNA (h) Lentiviral Particles: sc-62808-V and PIG-S shRNA (m) Lentiviral Particles: sc-62809-V.

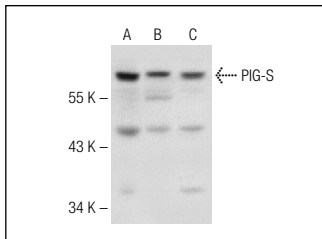
Molecular Weight of PIG-S: 65 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, DU 145 cell lysate: sc-2268 or PC-3 cell lysate: sc-2220.

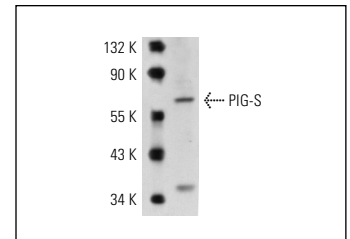
RECOMMENDED SECONDARY REAGENTS

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



PIG-S (D-19): sc-54979. Western blot analysis of PIG-S expression in HeLa (A), DU 145 (B) and PC-3 (C) whole cell lysates.



PIG-S (D-19): sc-54979. Western blot analysis of PIG-S expression in A-431 whole cell lysate.

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.


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Satisfaction
Guaranteed

Try **PIG-S (G-10): sc-373701**, our highly recommended monoclonal alternative to PIG-S (D-19).