# PIA (bV-20): sc-17396



The Power to Ouestion

#### **BACKGROUND**

Neisseria meningitidis is one of the leading causes of bacterial meningitis. Neisseria meningitidis resides in its natural habitat within the nasopharyngeal tract of humans. The carbohydrate capsule of N. meningitidis determines its virulence and is targeted by the immune system. Approximately 12 strains of N. meningitidis exist and are characterized by the expression of one of the following polysaccharides on its capsule: A, B, C, 29-E, H, I, K, L, W-135, X, Y and Z. Serogroups A (PIA), B (PIB) and C cause 90% of meningococcal meningitis cases, while group B accounts for approximately half of these. The major outer membrane protein PorA of Neisseria meningitidis is the target for bactericidal serosubtyping antibodies and is currently considered a potential vaccine candidate against group B meningococcal disease. PorB proteins constitute the vast majority of channels in neisserial outer membranes.

## **REFERENCES**

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- Tzeng, Y.L. and Stephens, D.S. 2000. Epidemiology and pathogenesis of Neisseria meningitidis. Microbes Infect. 6: 687-700.
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# SOURCE

PIA (bV-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PIA of *N. meningitidis* origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-17396 P, (100  $\mu$ g 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.

# **RESEARCH USE**

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

#### **APPLICATIONS**

PIA (bV-20) is recommended for detection of PIA of *N. meningitidis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

# **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.

## **PROTOCOLS**

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

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