# Pannexin-3 (C-15): sc-51385



The Power to Question

#### **BACKGROUND**

Gap junctions are formed by a hexameric group of proteins called connexins for the transport of low molecular weight proteins from cell to cell. Connexins, which are present in all metazoan organisms, serve diverse functions ranging from control of cell growth and differentiation to electric conduction in excitable tissues. Several mammalian cells with malignant phenotypes exhibit decreased connexin expression and gap junction communication. The Pannexin gene family encodes a second class of putative gap junction proteins. Pannexins are highly conserved in invertebrates and mammals, indicating the importance of their gap junctional coupling function. Mammalian Pannexin-3 and Pannexin-1 are closely related, while Pannexin-2 is more distantly related. Pannexin-3 is a multi-pass membrane protein that is not associated with channel activity or modulatory function.

## **REFERENCES**

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### CHROMOSOMAL LOCATION

Genetic locus: PANX3 (human) mapping to 11q24.2; Panx3 (mouse) mapping to 9 A4.

#### **SOURCE**

Pannexin-3 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of Pannexin-3 of human origin.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-51385 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

Pannexin-3 (C-15) is recommended for detection of Pannexin-3 of mouse, rat and 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).

Pannexin-3 (C-15) is also recommended for detection of Pannexin-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Pannexin-3 siRNA (h): sc-72254, Pannexin-3 siRNA (m): sc-72255, Pannexin-3 shRNA Plasmid (h): sc-72254-SH, Pannexin-3 shRNA Plasmid (m): sc-72255-SH, Pannexin-3 shRNA (h) Lentiviral Particles: sc-72254-V and Pannexin-3 shRNA (m) Lentiviral Particles: sc-72255-V.

Molecular Weight of Pannexin-3: 45 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.

#### **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.

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