

# SEC22C (N-14): sc-103200

## BACKGROUND

The *S. cerevisiae* protein Sec22p functions as a v-SNARE of transport vesicles and plays a role in both retrograde and anterograde vesicular transport between the Golgi and the endoplasmic reticulum (ER). There are three mammalian homologs to Sec22p, namely SEC22A, SEC22B and SEC22C. SEC22C (SEC22 vesicle trafficking protein homolog C), also known as SEC22L3, is a 303 amino acid multi-pass membrane protein of the endoplasmic reticulum. Ubiquitously expressed, SEC22C belongs to the synaptobrevin family, contains one longin domain and exists as three alternatively spliced isoforms. The gene encoding SEC22C maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Marfan syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: SEC22C (human) mapping to 3p22.1.

## SOURCE

SEC22C (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SEC22C 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-103200 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SEC22C (N-14) is recommended for detection of SEC22C 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).

Suitable for use as control antibody for SEC22C siRNA (h): sc-78216, SEC22C shRNA Plasmid (h): sc-78216-SH and SEC22C shRNA (h) Lentiviral Particles: sc-78216-V.

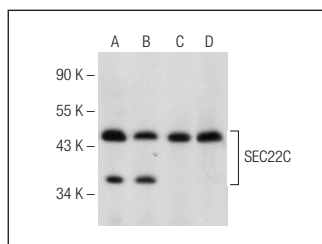
Molecular Weight of SEC22C isoforms: 34/28/26 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285, HISM cell lysate: sc-2229 or Hep G2 cell lysate: sc-2227.

## 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.

## DATA



SEC22C (N-14): sc-103200. Western blot analysis of SEC22C expression in MIA PaCa-2 (A), HISM (B), Hep G2 (C) and K-562 (D) whole cell lysates.

## RESEARCH USE

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