BACKGROUND
Sterol carrier protein 2 (SCP2), also designated nonspecific lipid-transfer protein, mitochondrial precursor, is involved in the non-specific transfer of intracellular sterol and lipid molecules between membranes. A member of the thiolase family, SCP2 may also be involved in regulating steriodogenesis in fibroblasts, peroxisomes, liver and placenta. In the liver it is a cytoplasmic protein but in steroidogenic tissues it localizes with mitochondria. Isoform SCPx is associated with the peroxisome. SCP2 is associated with Zellweger syndrome (cerebro-hepatic-renal syndrome), characterized by peroxisome deficiency and an impairment in plasmalogen and bile acid synthesis.

REFERENCES
2. He, Z., et al. 1991. cDNAs encoding members of a family of proteins related to human sterol carrier protein 2 and assignment of the gene to human chromosome 1 p21-pter. DNA Cell Biol. 10: 559-569.

CHROMOSOMAL LOCATION
Genetic locus: SCP2 (human) mapping to 1 p32.3; Scp2 (mouse) mapping to 4 C7.

SOURCE
SCP2 (A-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SCP2 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-32835 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.

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

APPLICATIONS
SCP2 (A-20) is recommended for detection of SCP2 isoform SCP2 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).

SCP2 (A-20) is also recommended for detection of SCP2 isoform SCP2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SCP2 siRNA (h): sc-44636, SCP2 siRNA (m): sc-44637, SCP2 shRNA Plasmid (h): sc-44636-SH, SCP2 shRNA Plasmid (m): sc-44637-SH, SCP2 shRNA (h) Lentiviral Particles: sc-44636-V and SCP2 shRNA (m) Lentiviral Particles: sc-44637-V.

Molecular Weight of SCP2: 13 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 Luminal 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.

SELECT PRODUCT CITATIONS

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