

## Product datasheet for **AP31972PU-N**

### Sterol carrier protein 2 (SCP2) Goat Polyclonal Antibody

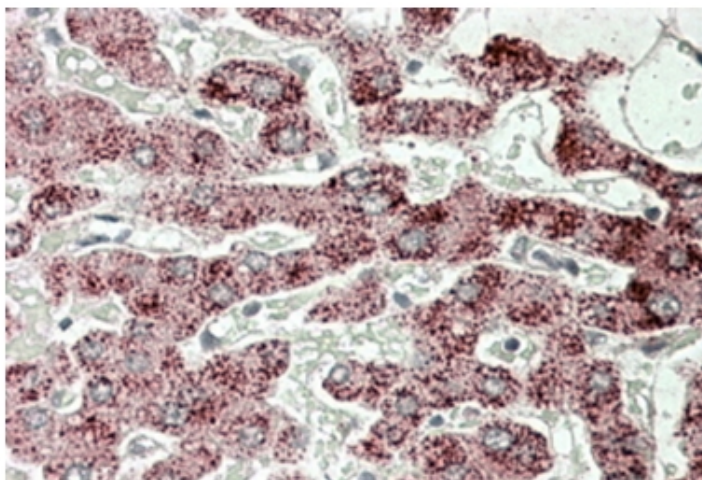
#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | ELISA, IHC   |
| Recommended Dilution: | <b>Peptide ELISA:</b> 1/32000 (Detection limit).<br><b>Western blot:</b> Preliminary experiments gave an approx 50kDa band in Human Liver lysates after 0.3 µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the band we observe given the calculated size of 59.0kDa according to NP_001007099.1 and of 6.7kDa according to NP_002970.2. The 28kDa band was successfully blocked by incubation with the immunizing peptide.<br>We would appreciate any feedback from people in the field - have any results been reported with other antibodies / lysates? Have any further splice variants / modified forms been reported?<br><b>Immunohistochemistry on Paraffin Sections:</b> 3-6 µg/ml. In paraffin embedded Human Liver shows speckled cytoplasm staining in hepatocytes. |
| Reactivity:           | Bovine, Canine, Human, Mouse, Porcine, Rat   |
| Host:                 | Goat   |
| Clonality:            | Polyclonal   |
| Immunogen:            | Synthetic peptide from an internal region of human SCP2 (NP_001007099.1; NP_002970.2; NP_001180528.1; NP_001180529.1; NP_001180546.1).   |
| Specificity:          | This antibody is expected to recognize isoform 1, 2, 6, 7 and 8 of SCP2 (NP_002970.2, NP_001007099.1, NP_001180529.1, NP_001180528.1 and NP_001180546.1 respectively).   |
| Formulation:          | Tris saline, pH~7.3<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Stabilizer: 0.5% BSA<br>Preservative: 0.02% Sodium Azide   |
| Concentration:        | lot specific   |
| Purification:         | Immunoaffinity Chromatography  |
| Conjugation:          | Unconjugated   |



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- Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
- Stability:** Shelf life: one year from despatch.
- Database Link:** [Entrez Gene 6342 Human P22307](#)
- Background:** This gene encodes two proteins: sterol carrier protein X (SCPx) and sterol carrier protein 2 (SCP2), as a result of transcription initiation from 2 independently regulated promoters. The transcript initiated from the proximal promoter encodes the longer SCPx protein, and the transcript initiated from the distal promoter encodes the shorter SCP2 protein, with the 2 proteins sharing a common C-terminus. Evidence suggests that the SCPx protein is a peroxisome-associated thiolase that is involved in the oxidation of branched chain fatty acids, while the SCP2 protein is thought to be an intracellular lipid transfer protein. This gene is highly expressed in organs involved in lipid metabolism, and may play a role in Zellweger syndrome, in which cells are deficient in peroxisomes and have impaired bile acid synthesis. Alternative splicing of this gene produces multiple transcript variants, some encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq]
- Synonyms:** SCP-2, SCP-X, SCP-chi, Sterol carrier protein 2, Sterol carrier protein X, NSL-TP

**Product images:**

SCP2 antibody staining of paraffin embedded Human Liver at 3.8 ug/ml. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.