**BACKGROUND**

Selenium is an essential trace element that is incorporated as selenocysteine into the primary structure of selenoproteins. Nutritional deficiency of selenium decreases selenoprotein concentrations and leads to pathologic conditions. Most of the known selenoproteins are members of the glutathione peroxidase or iodothyronine deiodinase families. Selenoprotein P (SEPP1) is a major selenoprotein that is not a member of those families. It is an extracellular glycoprotein that is present in several isoforms and is the only selenoprotein known to contain multiple selenocysteine residues. Selenoprotein P is a heparin-binding protein that appears to be associated with endothelial cells and has been implicated as an oxidant defense in the extracellular space. Although there is evidence of several isoforms of the protein, all of them share the same amino-terminal sequence and therefore are likely products of the same gene. The gene which encodes Selenoprotein P maps to human chromosome 5q31.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SEPP1 (human) mapping to 5q12; Sepp1 (mouse) mapping to 5q31.

**SOURCE**

Selenoprotein P (H-300) is a rabbit polyclonal antibody raised against amino acids 82-381 mapping at the C-terminus of Selenoprotein P 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.

**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**

Selenoprotein P (H-300) is recommended for detection of Selenoprotein P of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), Immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), 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).


Molecular Weight of Selenoprotein P: 57/45 kDa.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2033 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

Ea**molecular weight of Selenoprotein P: 57/45 kDa.

**SELECT PRODUCT CITATIONS**


**MONOS Satisfaction Guaranteed**

Try Selenoprotein P (B-9): sc-376858, our highly recommended monoclonal alternative to Selenoprotein P (H-300). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Selenoprotein P (B-9): sc-376858.