

**SPR Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9950B**

**Specification**

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**SPR Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P35270</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	231-260

**SPR Antibody (C-term) - Additional Information**

**Gene ID** 6697

**Other Names**

Sepiapterin reductase, SPR, SPR

**Target/Specificity**

This SPR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 231-260 amino acids from the C-terminal region of human SPR.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SPR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SPR Antibody (C-term) - Protein Information**

**Name** SPR

**Function** Catalyzes the final one or two reductions in tetra- hydrobiopterin biosynthesis to form 5,6,7,8-tetrahydrobiopterin.

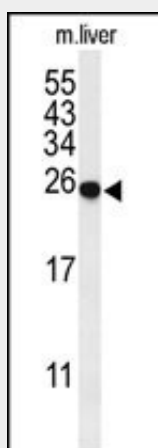
**Cellular Location**

Cytoplasm.

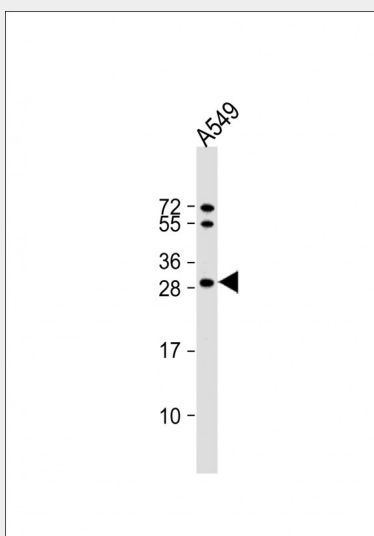
**SPR Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SPR Antibody (C-term) - Images**

Western blot analysis of SPR Antibody (C-term) (Cat.#AP9950b) in mouse liver tissue lysates (35ug/lane). SPR (arrow) was detected using the purified Pab.



Anti-SPR Antibody (C-term) at 1:1000 dilution + A549 whole cell lysate Lysates/proteins at 20 µg

per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **SPR Antibody (C-term) - Background**

SPR encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in this gene result in DOPA-responsive dystonia due to sepiaterin reductase deficiency. A pseudogene has been identified on chromosome 1.

#### **SPR Antibody (C-term) - References**

Leu-Semenescu, S., et al. Sleep 33(3):307-314(2010) Schnetz-Boutaud, N.C., et al. Genes Brain Behav. 8(8):753-757(2009) Clot, F., et al. Brain 132 (PT 7), 1753-1763 (2009)

#### **SPR Antibody (C-term) - Citations**

- [Chitinase-like proteins are candidate biomarkers for sepsis-induced acute kidney injury.](#)