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SPR Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9950B

Product Information

Application	WB, E
Primary Accession	P35270
Reactivity	Human, Mouse
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28048
Antigen Region	231-260

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.

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.

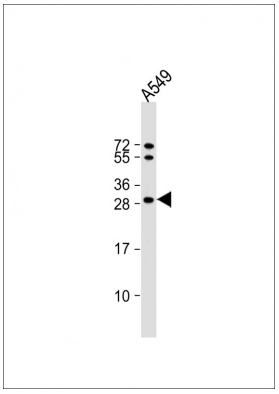
Background

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.

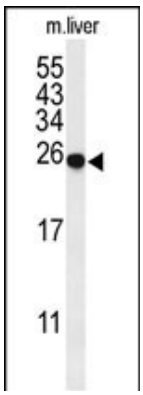
References

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)

Images



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.



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.

Citations

- Chitinase-like proteins are candidate biomarkers for sepsis-induced acute kidney injury.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.