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Datasheet for ABIN5692972 anti-SPR antibody (AA 36-261)

1 Image

1 Publication



Overview

Quantity:	100 µg
Target:	SPR
Binding Specificity:	AA 36-261
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPR antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human SPR recombinant protein (Position: V36-K261).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for SPR detection. Tested with WB, Direct ELISA in Human,Mouse.

Target Details

Target:	SPR
Alternative Name:	SPR (SPR Products)
Background:	Synonyms: Sepiapterin reductase, SPR, SPR

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	Background: Sepiapterin reductase is an enzyme that in humans is encoded by the SPR gene
	This gene 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.
UniProt:	P35270
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, Feeding Behaviour, Smooth
	Muscle Cell Migration
Application Details	
Application Notes:	Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG
	(ABIN921124) for Western blot.
	Application Details: Western blot,0.1-0.5 µg/mL
	Direct ELISA,0.1-0.5 µg/mL
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na $_2$ HPO $_4$, 0.05 mg NaN $_3$.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing
	and thawing.
Publications	
Product cited in:	Jeng, Jeng, Jeng, Sheen, Li, Lu, Chang: "Tropism of liver epithelial cells toward hepatocellular

carcinoma in vitro and in vivo with altering gene expression of cancer stem cells." in: American

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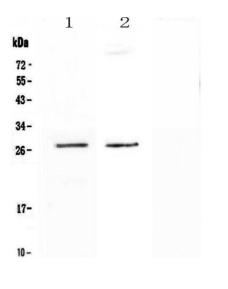
Winkler, Hempel, Brückner, Mallek, Weise, Liehr, Tautenhahn, Bartels, Christ: "Mouse white adipose tissue-derived mesenchymal stem cells gain pericentral and periportal hepatocyte features after differentiation in vitro, which are preserved in vivo after hepatic transplantation." in: **Acta physiologica (Oxford, England)**, Vol. 215, Issue 2, pp. 89-104, (2016) (PubMed).

Yan, Zhu, Sun, Zhang, Li, Sun, Li, Qian, Zhu, Xu: "Extracellular regulated protein kinases 1/2 phosphorylation is required for hepatic differentiation of human umbilical cord-derived mesenchymal stem cells." in: **Experimental biology and medicine (Maywood, N.J.)**, Vol. 240, Issue 4, pp. 534-45, (2015) (PubMed).

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Images



Western Blotting

Image 1. Western blot analysis of SPR using anti-SPR antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: mouse HEPA1-6 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-

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SPR antigen affinity purified polyclonal antibody (Catalog #) at 0.5 μ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for SPR at approximately 28KD. The expected band size for SPR is at 28KD.

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