OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF501983

SPR Mouse Monoclonal Antibody [Clone ID: OTI4F5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SPR (NP_003115) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	27.9 kDa
Gene Name:	Homo sapiens sepiapterin reductase (SPR), mRNA.
Database Link:	NP_003115 Entrez Gene 29270 RatEntrez Gene 6697 Human P35270

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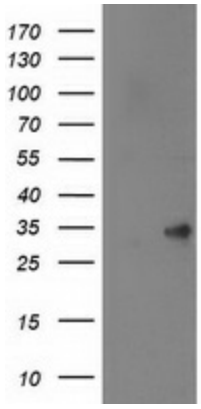
Background: This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in this gene result in DOPA-responsive dystonia due to sepiaterin reductase deficiency. A pseudogene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

Synonyms: SDR38C1

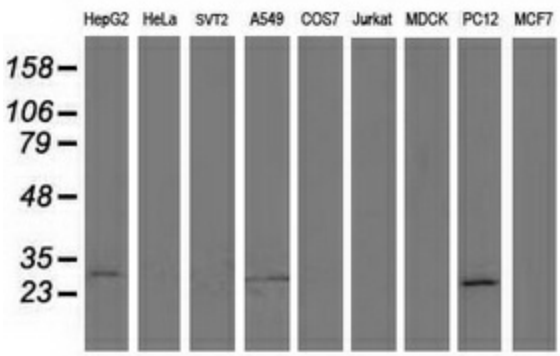
Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SPR ([RC205679], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPR ([TA501983]). Positive lysates [LY401086] (100ug) and [LC401086] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SPR monoclonal antibody.

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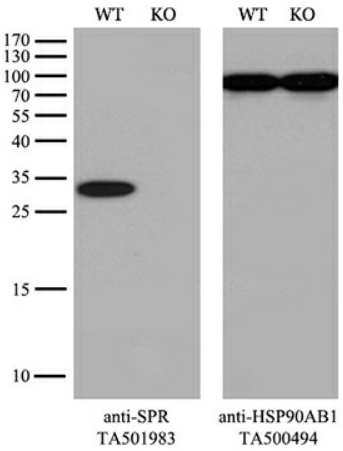
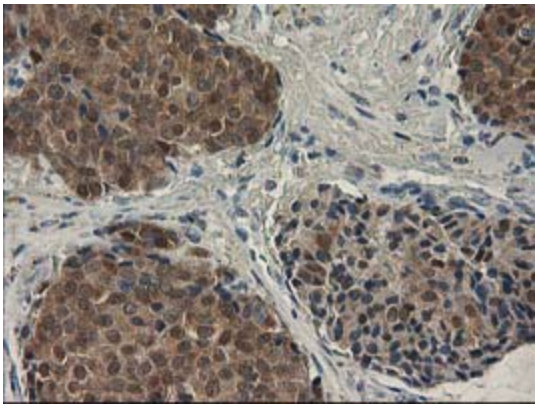
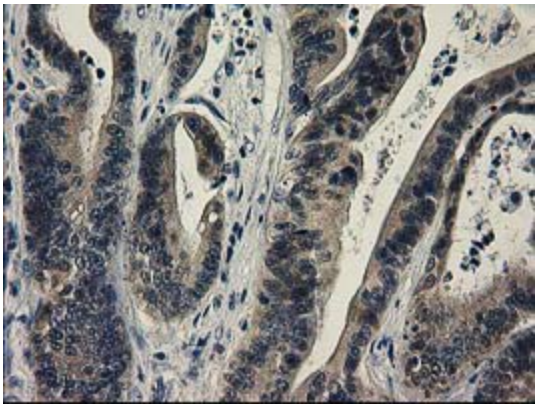


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and SPR-Knockout Hela cells (KO, Cat# [LC810223]) were separated by SDS-PAGE and immunoblotted with anti-SPR monoclonal antibody [TA501983]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])

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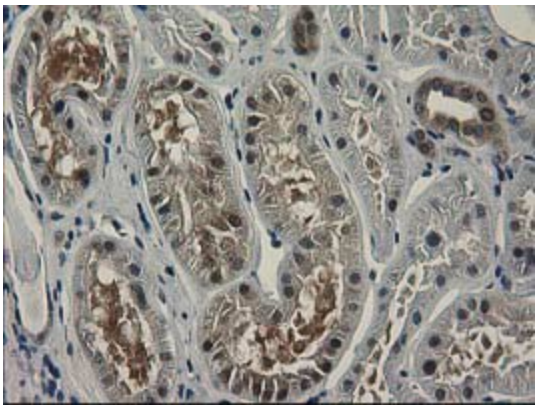
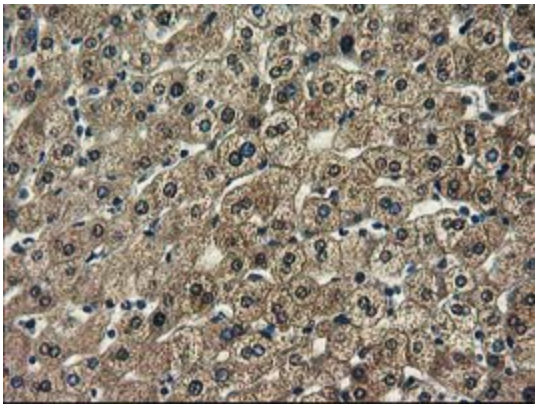
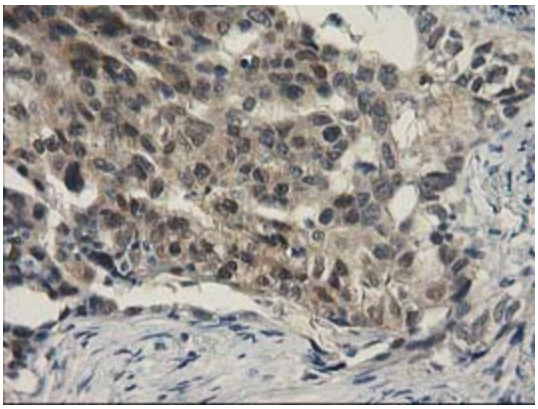


Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])

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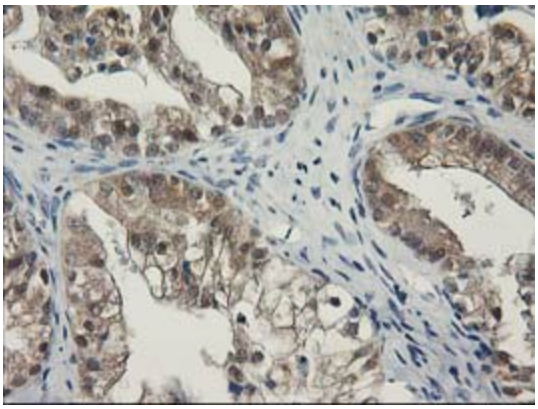
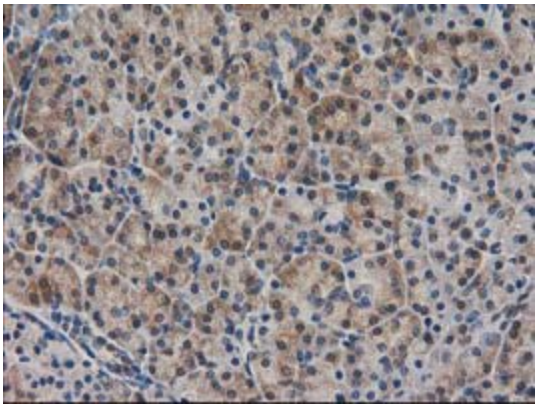
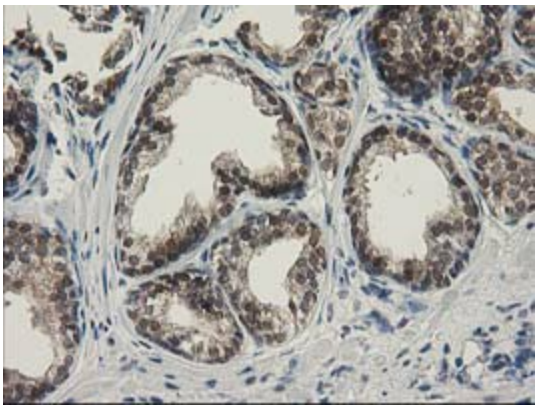


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])

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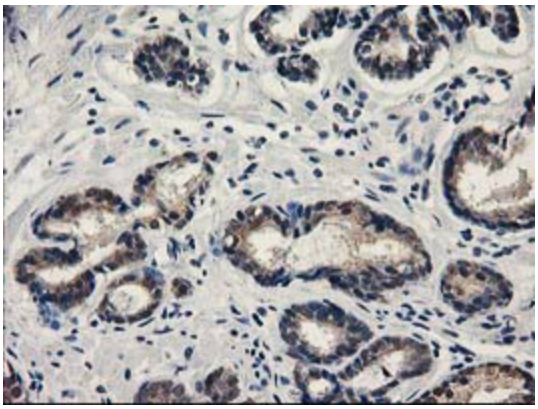
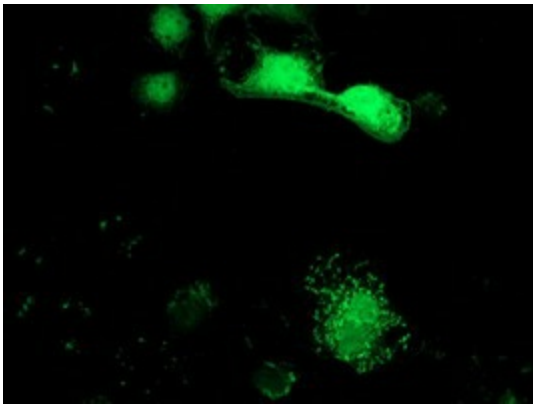
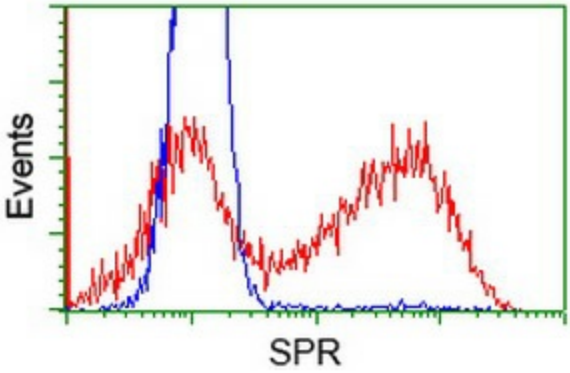


Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501983])



Anti-SPR mouse monoclonal antibody ([TA501983]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SPR ([RC205679]).



HEK293T cells transfected with either [RC205679] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SPR antibody ([TA501983]), and then analyzed by flow cytometry.

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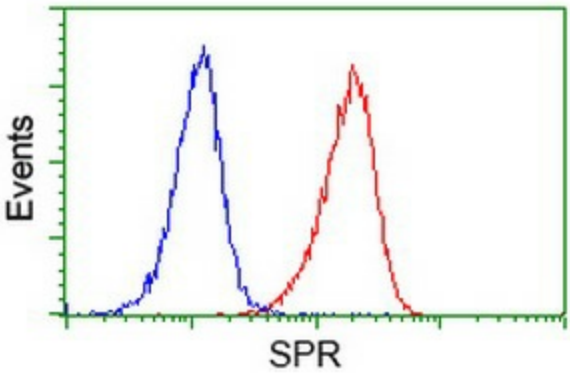

Flow cytometric Analysis of Jurkat cells, using anti-SPR antibody ([TA501983]), (Red), compared to a nonspecific negative control antibody, (Blue).

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