

## Product datasheet for **CF501983**

### SPR Mouse Monoclonal Antibody [Clone ID: OTI4F5]

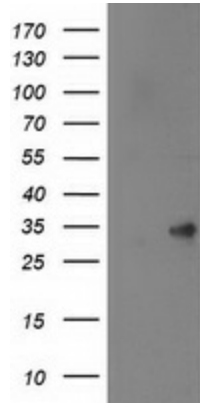
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F5
Applications:	FC, IF, IHC, WB
Recommend 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:	PBS (pH7.3), 8% Trehalose
Reconstitution Method:	Reconstitute with PBS (pH7.3). To use this carrier-free antibody for conjugation experiment, we strongly recommend you to perform another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids by affinity chromatography
Predicted Protein Size:	27.9 kDa
Gene Name:	Homo sapiens sepiapterin reductase (SPR), mRNA.
Database Link:	<a href="#">NP_003115 Entrez Gene</a> <a href="#">29270 Rat</a> <a href="#">Entrez Gene</a> <a href="#">6697 Human</a>
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 sepiapterin 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

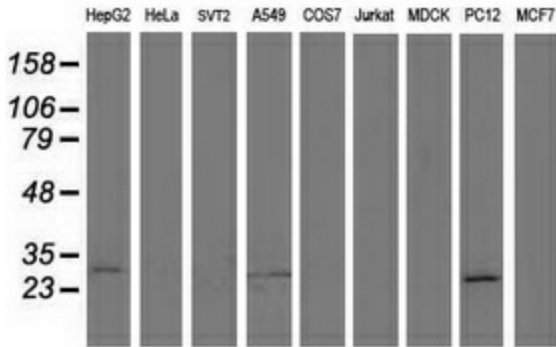


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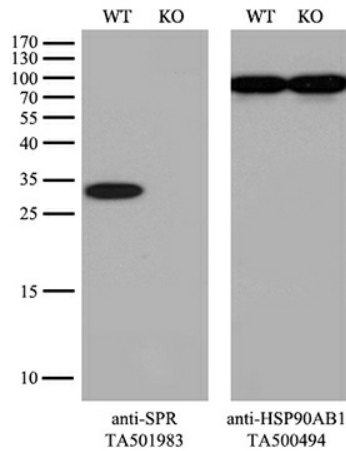
Product images:



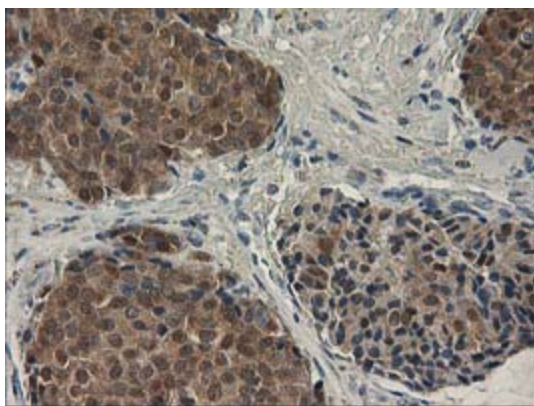
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SPR (RC205679, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPR. Positive lysates LY401086 (100ug) and LC401086 (20ug)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



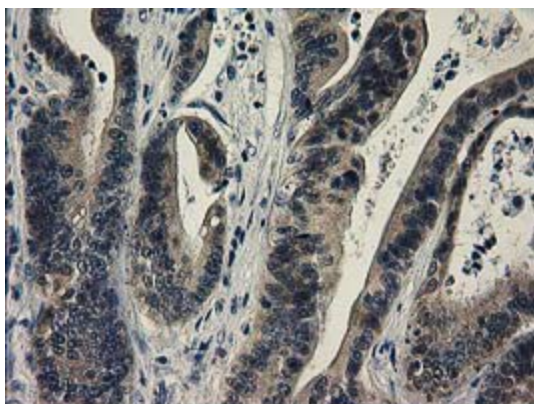
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SPR monoclonal antibody.



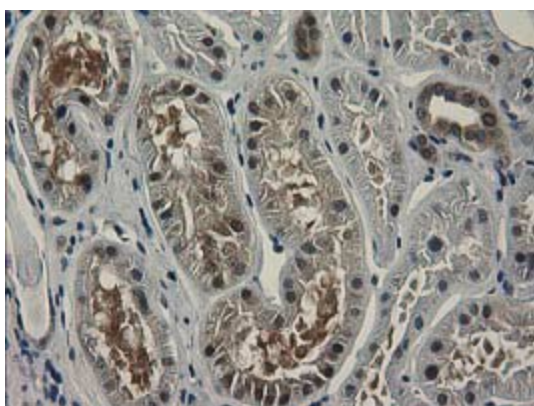
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and SPR-Knockout HeLa cells (KO, Cat# LC810223) were separated by SDS-PAGE and immunoblotted with anti-SPR monoclonal antibody TA501983. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1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



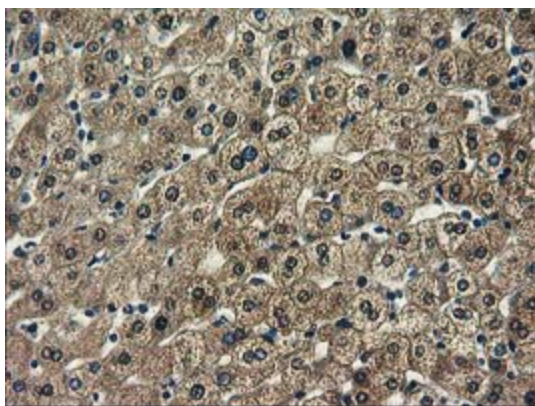
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



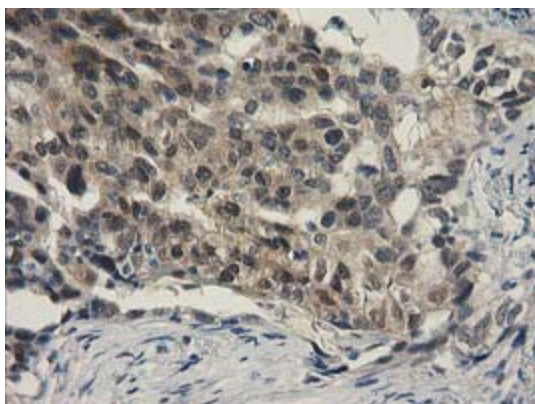
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



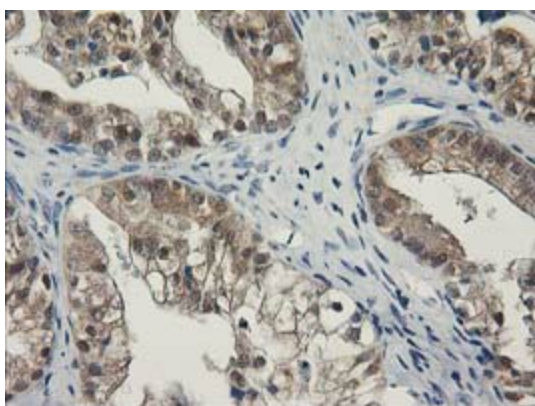
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



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)

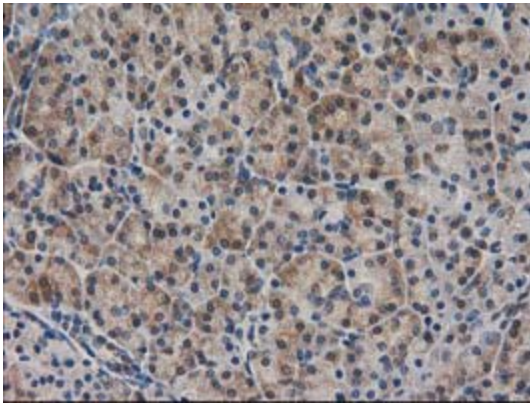


Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)

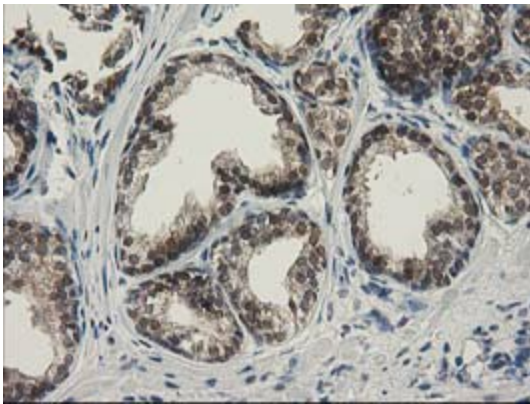


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)

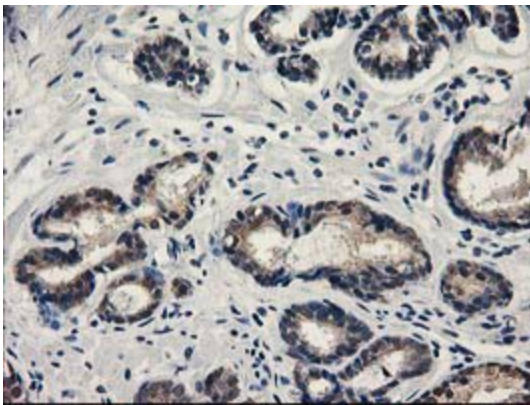




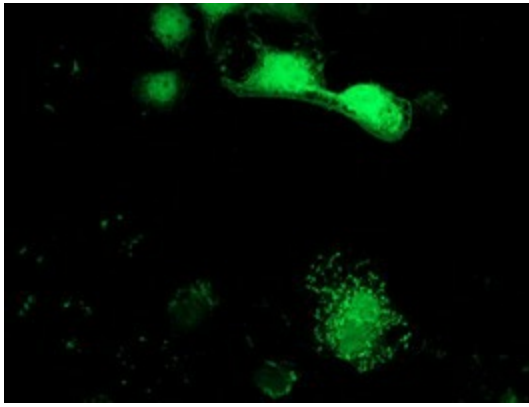
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



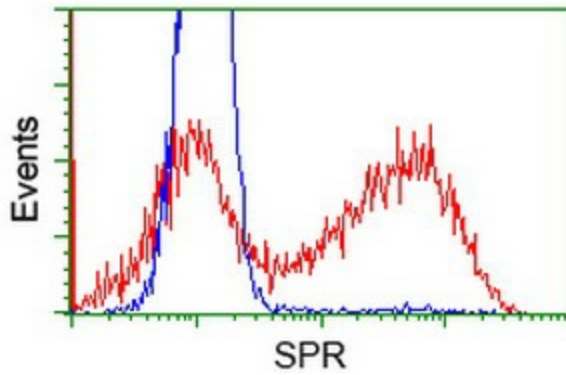
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



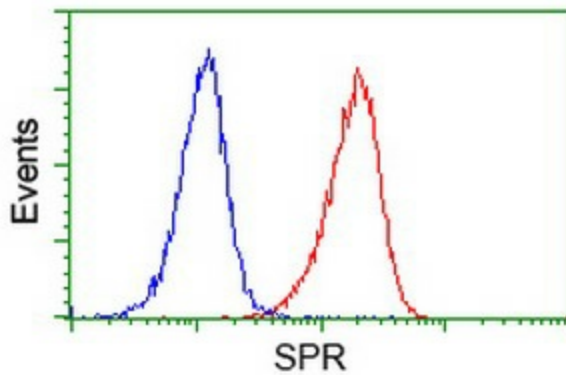
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA501983)



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.



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