

## Product datasheet for **CF501984**

### SPR Mouse Monoclonal Antibody [Clone ID: OTI1F4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Monkey
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:	sepiapterin reductase
Database Link:	<a href="#">NP_003115</a> <a href="#">Entrez Gene 705317 Monkey</a> <a href="#">Entrez Gene 6697 Human</a> <a href="#">P35270</a>



[View online »](#)

**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:**

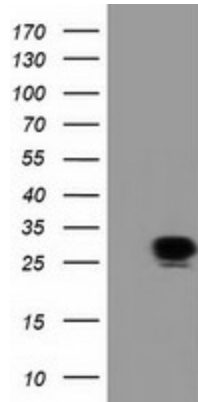
SDR38C1

**Protein Families:**

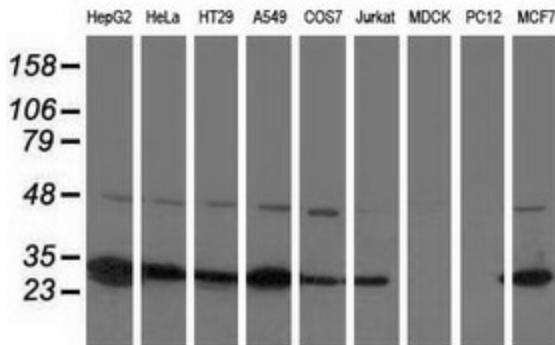
Druggable Genome

**Protein Pathways:**

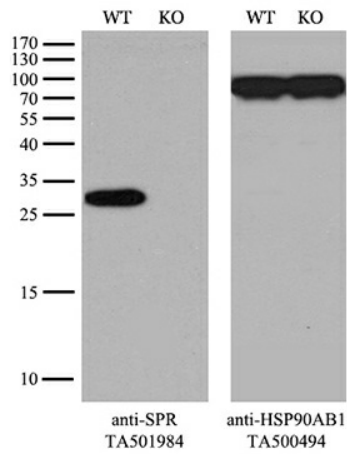
Folate biosynthesis, Metabolic pathways

**Product images:**


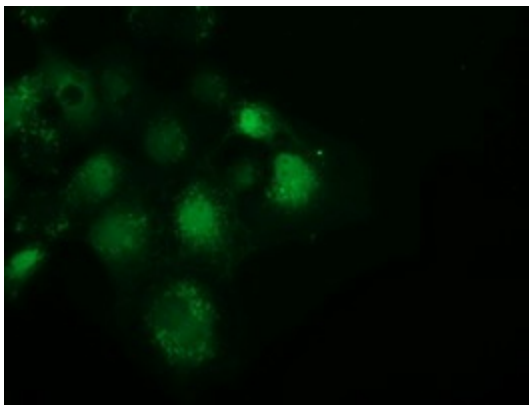
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SPR ([RC205679], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPR. Positive lysates [LY401086] (100ug) and [LC401086]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



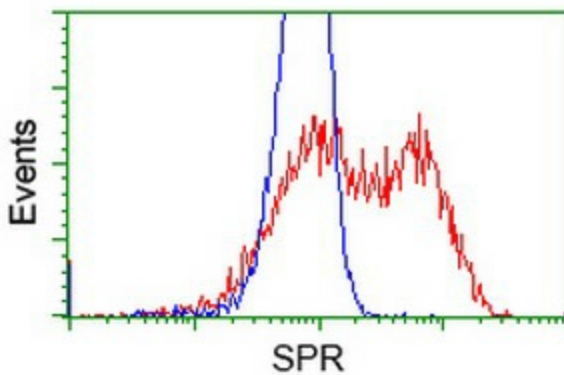
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SPR monoclonal antibody.



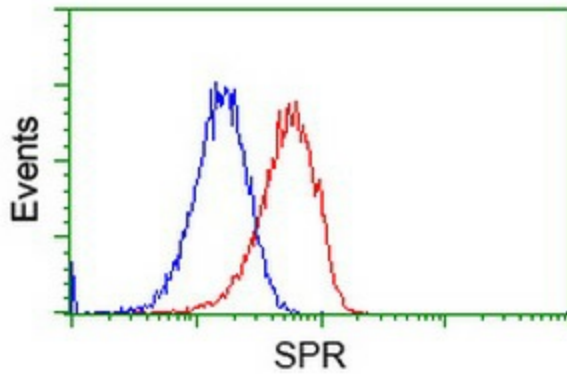
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and SPR-Knockout HeLa cells (KO, Cat# [LC810223]) were separated by SDS-PAGE and immunoblotted with anti-SPR monoclonal antibody [TA501984]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).



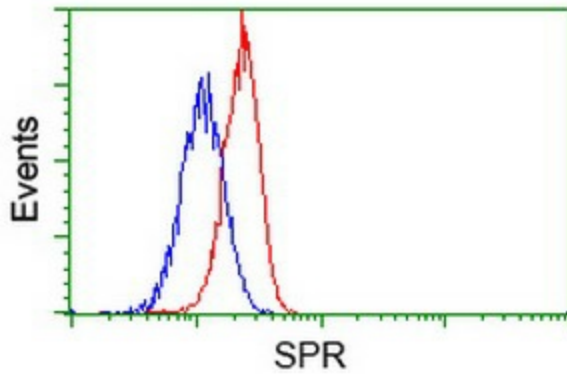
Anti-SPR mouse monoclonal antibody ([TA501984]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SPR ([RC205679]).



HEK293T cells transfected with either [RC205679] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SPR antibody ([TA501984]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-SPR antibody ([TA501984]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-SPR antibody ([TA501984]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).