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Product datasheet for TA501960

SPR Mouse Monoclonal Antibody [Clone ID: OTI3D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D6
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:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
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:	NP_003115 Entrez Gene 705317 MonkeyEntrez Gene 6697 Human P35270
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

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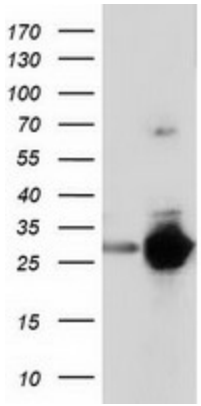
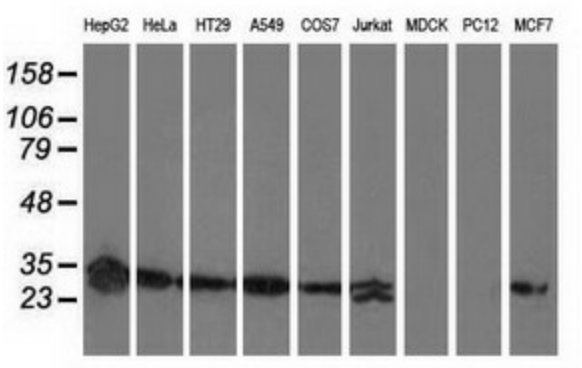
Protein Families: Druggable Genome

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.

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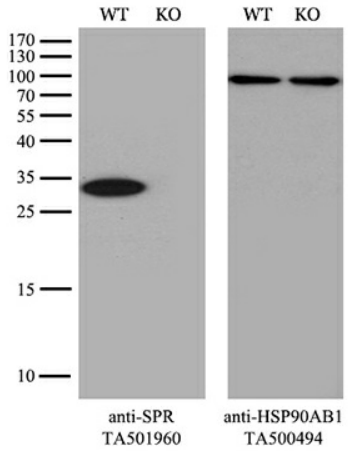
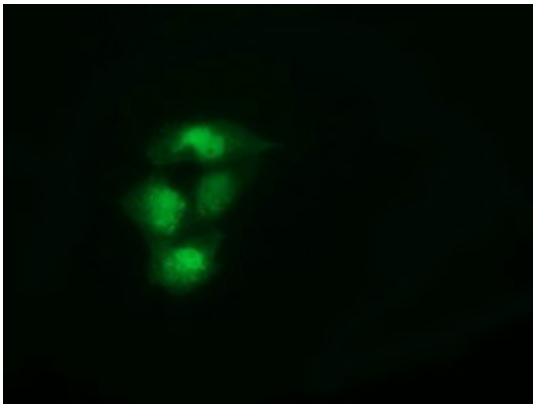
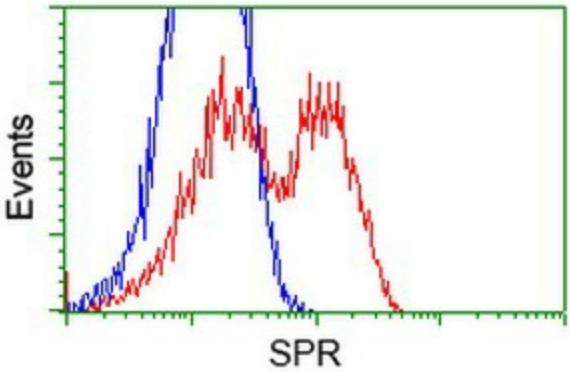


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and SPR-Knockout Hela cells (KO, Cat# [LC810223]) were separated by SDS-PAGE and immunoblotted with anti-SPR monoclonal antibody TA501960. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).



Anti-SPR mouse monoclonal antibody (TA501960) 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 (TA501960), and then analyzed by flow cytometry.

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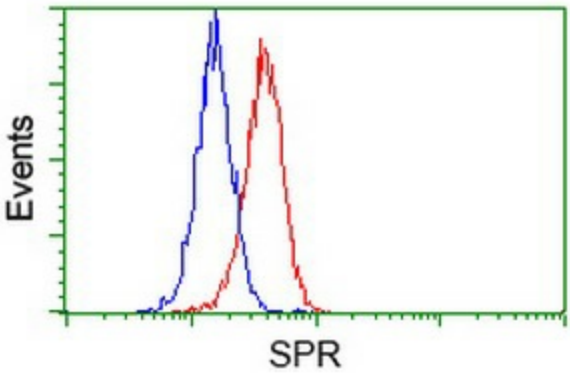

Flow cytometric Analysis of Hela cells, using anti-SPR antibody (TA501960), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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