

## Product datasheet for **TA501963BM**

### SPR Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI2C6]

#### Product data:

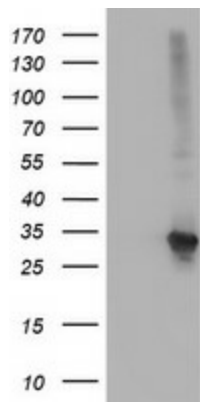
|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI2C6  |
| Applications:           | FC, IF, IHC, WB   |
| Recommended Dilution:   | WB 1:500~2000, IHC 1:150, FLOW 1:100, IF: 1:100   |
| Reactivity:             | 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.   |
| Concentration:          | 0.5 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| Conjugation:            | HRP   |
| 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><br><a href="#">Entrez Gene 705317 Monkey</a> <a href="#">Entrez Gene 6697 Human</a><br><a href="#">P35270</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  |



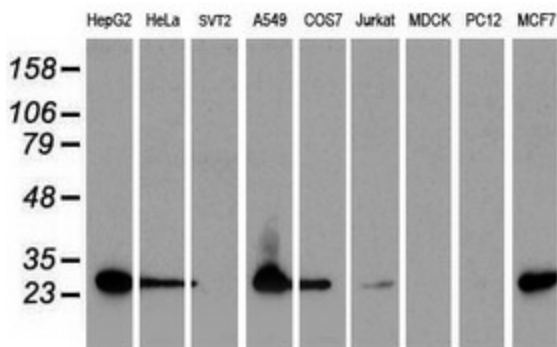
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Protein Pathways: Folate biosynthesis, Metabolic pathways

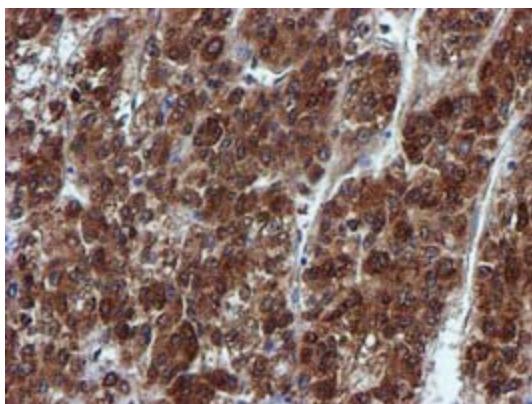
**Product images:**



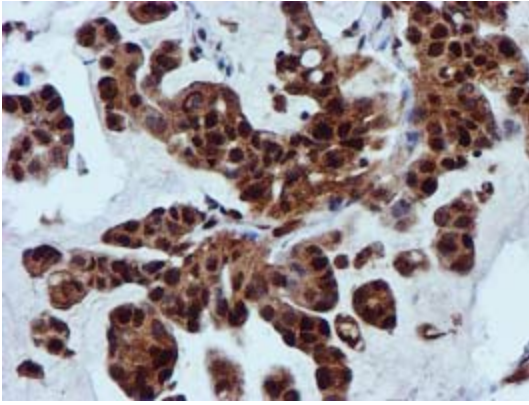
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SPR (Cat# [RC205679], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPR antibody (Cat# [TA501963]). Positive lysates [LY401086] (100ug) and [LC401086] (20ug) can be purchased separately from OriGene.



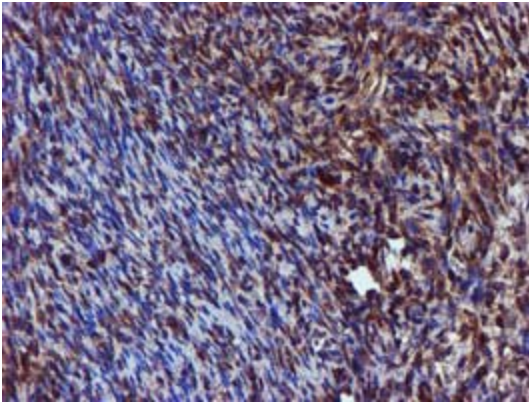
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SPR monoclonal antibody.



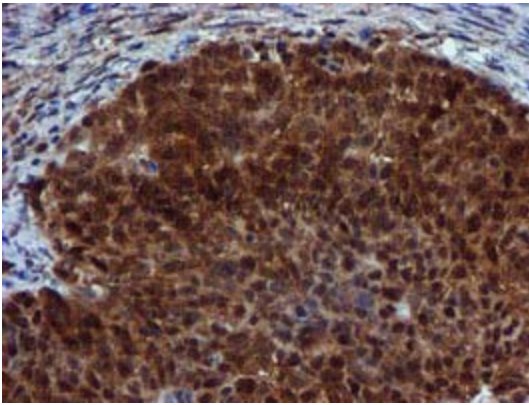
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



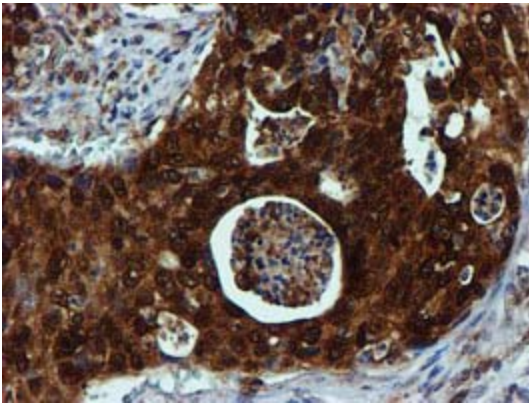
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



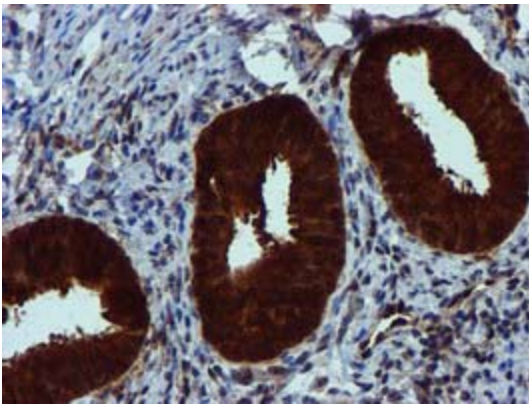
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



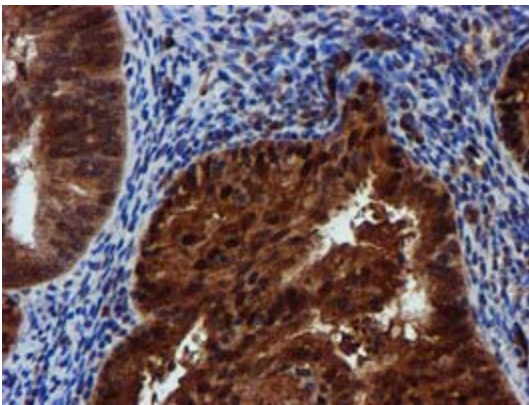
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])

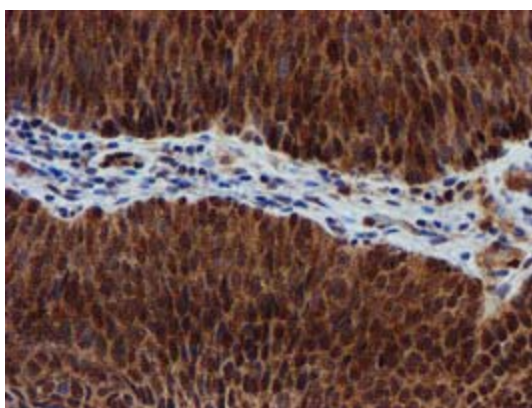


Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])

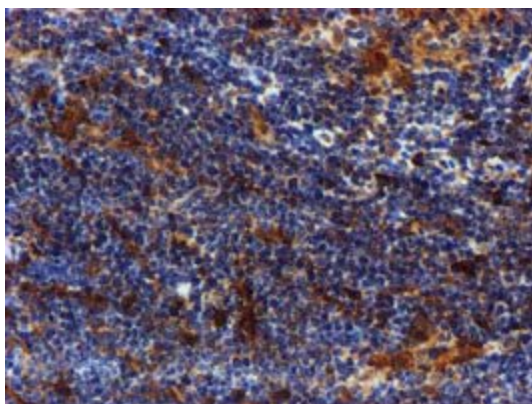


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])

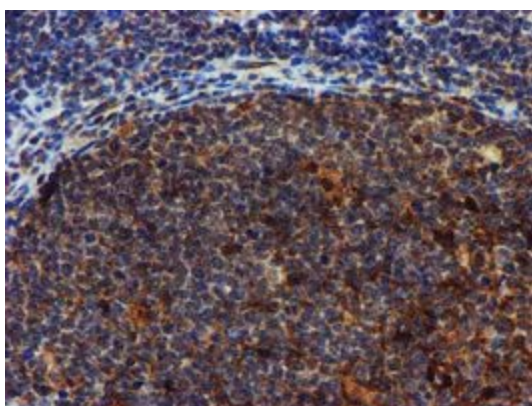




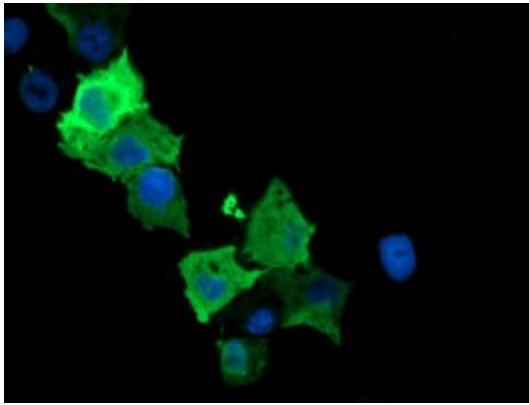
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



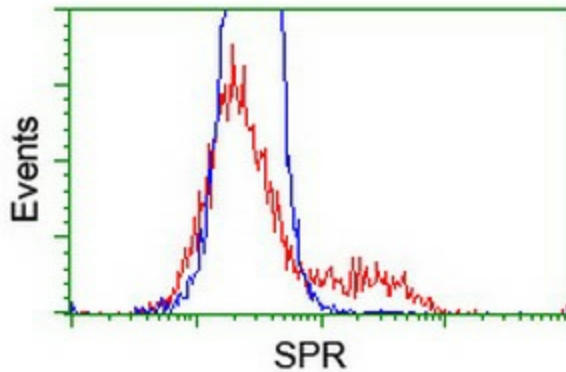
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



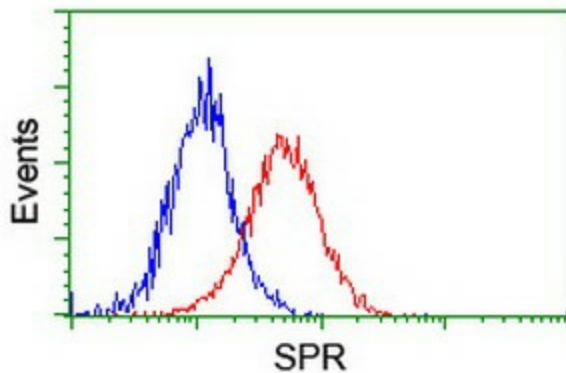
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-SPR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501963])



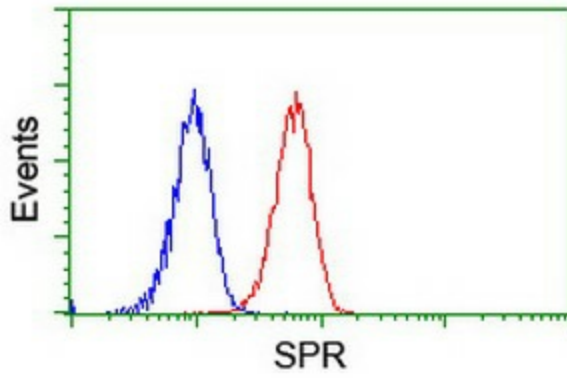
Anti-SPR mouse monoclonal antibody ([TA501963]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SPR ([RC205679]).



HEK293T cells transfected with either [RC205679] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SPR antibody ([TA501963]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-SPR antibody ([TA501963]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-SPR antibody ([TA501963]), (Red), compared to a nonspecific negative control antibody, (Blue).