abcam

ab157194

Anti-SPR antibody [EPR9290]

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR9290
Purification technique	Affinity purification Protein A
Concentration	0.676 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information Sepiapterin reductase

Function	Catalyzes the final one or two reductions in tetra-hydrobiopterin biosynthesis to form 5,6,7,8-tetrahydrobiopterin.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Notes

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

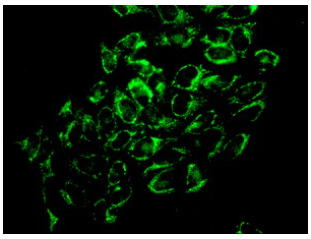
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

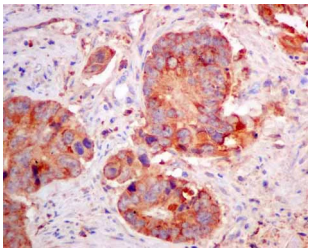
11 product images



Immunocytochemistry/ Immunofluorescence - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-SPR antibody

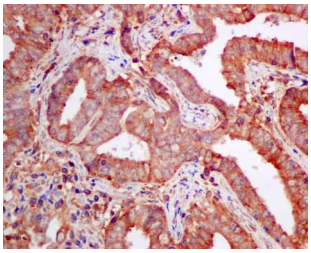
Immunofluorescent analysis of HeLa cells labeling TPST2 with ab157194 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SPR antibody

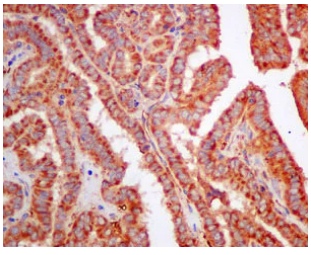
ab157194 showing +ve staining in Human colonic adenocarcinoma.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SPR antibody

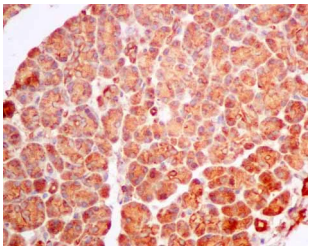
ab157194 showing +ve staining in Human endometrial carcinoma.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SPR antibody

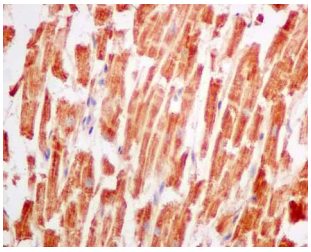
Immunohistochemical analysis of paraffin-eEmbedded Human thyroid gland carcinoma tissue labeling TPST2 with ab157194 at 1/100 dilution.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SPR antibody

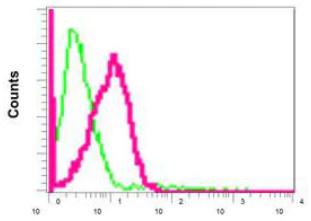
ab157194 showing +ve staining in Human normal pancreas.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SPR antibody

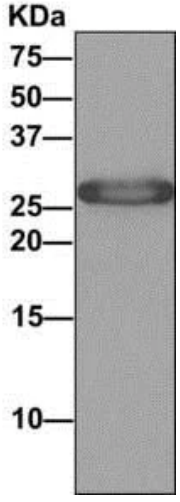
ab157194 showing +ve staining in Human heart.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-SPR antibody [EPR9290] (ab157194)

SPR Flow Cytometry (Intracellular) staining using rabbit Anti-SPR antibody

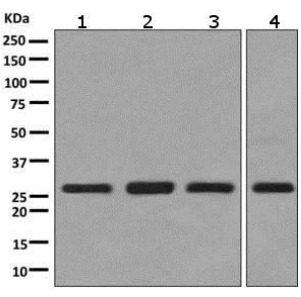
Intracellular Intracellular Flow Cytometic analysis of permeabilized MCF7 cells labeling TPST2 with ab157194 at 1/100 (red) or a rabbit IgG (negative) (green).



Immunoprecipitation - Anti-SPR antibody [EPR9290] (ab157194)

Detection of TPST2 by Western Blot of Immunprecipitate. MCF7 cell lysate immunoprecipitated using ab157194 at 1/10 dilution.
All lanes:
Immunoprecipitation - Anti-SPR antibody [EPR9290] (ab157194)

Predicted band size: 28 kDa



Western blot - Anti-SPR antibody [EPR9290] (ab157194)

All lanes:
Western blot - Anti-SPR antibody [EPR9290] (ab157194) at 1/1000 dilution

Lane 1:
A549 cell lysate at 10 µg

Lane 2:
MCF7 cell lysate at 10 µg

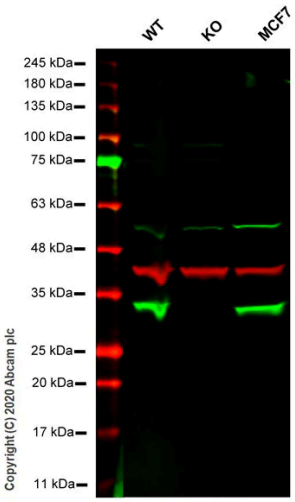
Lane 3:
HepG2 cell lysate at 10 µg

Lane 4:
HeLa cell lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 28 kDa



Western blot - Anti-SPR antibody [EPR9290] (ab157194)

Lanes 1-3: Merged signal (red and green). Green - ab157194 observed at 26 kDa. Red - loading control, ab8245 observed at 37 kDa.
ab157194 Anti-SPR antibody [EPR9290] was shown to specifically react with SPR in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab264681 (knockout cell lysate ab258700) was used. Wild-type and SPR knockout samples were subjected to SDS-PAGE. ab157194 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-SPR antibody [EPR9290] (ab157194) at 1/1000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
SPR knockout HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human SPR knockout HeLa cell line (ab264681)

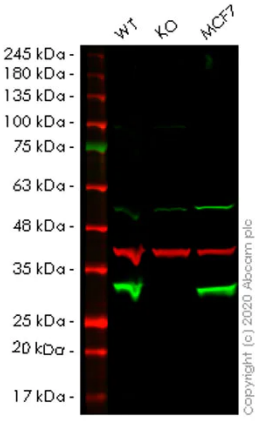
Lane 3:
MCF7 cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 28 kDa

Observed band size: 26 kDa

Western blot - Anti-SPR antibody [EPR9290] (ab157194)



SPR Western blot staining using rabbit Anti-SPR antibody

Lanes 1-3: Merged signal (red and green). Green - ab157194 observed at 26 kDa. Red - loading control, ab8245 observed at 37 kDa.
ab157194 Anti-SPR antibody [EPR9290] was shown to specifically react with SPR in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab264681 (knockout cell lysate ab258700) was used. Wild-type and SPR knockout samples were subjected to SDS-PAGE. ab157194 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-SPR antibody [EPR9290] (ab157194) at 1/1000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
SPR knockout HeLa cell lysate at 20 µg

Lane 3:
MCF7 cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 28 kDa

Observed band size: 26 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.