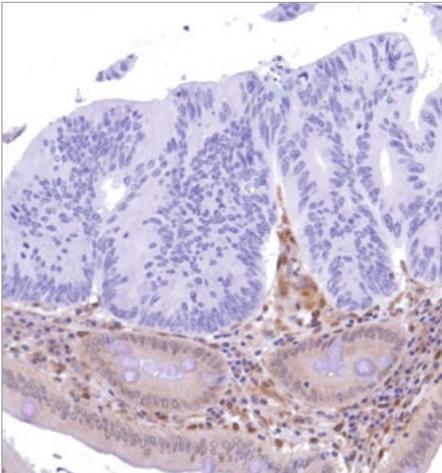
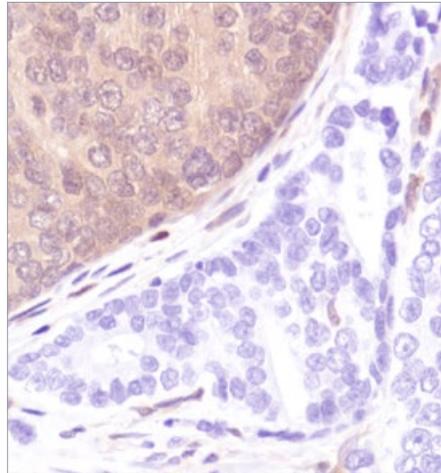


PTEN (SP218)

Rabbit monoclonal antibody



Human prostate adenocarcinoma stained with PTEN (SP218) antibody



Human colon adenocarcinoma stained with PTEN (SP218) antibody

Advance the goal of personalised healthcare

PTEN loss is implicated in a wide variety of cancers, giving PTEN expression great value as a potential prognostic indicator and companion diagnostic. SP218 advances your research in the arena of PTEN expression.

Improved sensitivity

SP218 is sensitive on FFPE tissue, with a clear signal in the carcinoma and the stroma, making it an effective IHC tool for assessing PTEN expression in cancer research. Providing a clear background and decreased incubation times compared to competitors' antibodies, SP218 has the added benefit of the extreme sensitivity inherent in recombinant rabbit monoclonal antibodies, bringing the latest antibody developments into your lab.

Trusted specificity

A member of our best-in-class SP antibody family, SP218 offers more accurate interpretations with less background than leading commercially available PTEN antibodies. With specificity confirmed by the single band on the Western Blot analysis and a 100% concordance rate for PTEN loss in an internal study of primary prostate and colon cancer, with little to no cross-reactivity, SP218 provides results you can trust.

Greater accuracy

Designed specifically for IHC use with FFPE samples, SP218 is a latest generation recombinant rabbit monoclonal antibody that offers robust staining with extreme sensitivity and specificity. Combined with little to no cross reactivity, these features allow easier, more accurate interpretation and bring confidence to IHC PTEN status assessments. SP218 can also be used for Western Blot and FACS analysis, providing a single-source PTEN solution with specific, accurate results.

Outstanding reliability

Developed by Spring Bioscience, a Roche antibody center of excellence, SP218 has remarkably consistent IHC performance, making it a clear choice for reliable, reproducible PTEN assessments and the development of companion diagnostics.

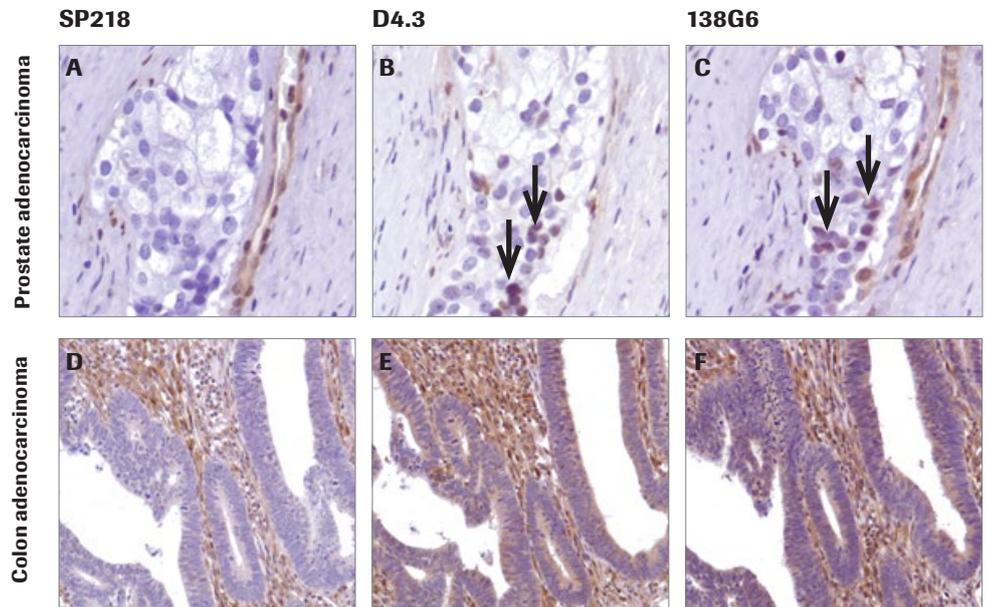
The SP218 antibody is available in 0.1, 0.5 and 1.0 ml concentrate configurations, as well as a ready-to-use 7.0 ml, with protocols for manual, semi-automated and the VENTANA Discovery XT platform, for decreased assay development times.

Advantages of rabbit monoclonal anti-PTEN (SP218) from Spring Bioscience

- Robust performance for FFPE tissue
- Highly sensitive and specific monoclonal antibody
- Minimised background and non-specific staining
- Increased accuracy for PTEN status interpretation

Overview of comparison testing, showing variations in specificity and sensitivity among SP218 and competitor anti-PTEN antibodies on prostate and colon samples

Interpretation of PTEN loss using SP218 can provide pathologists a more accurate assessment of PTEN protein expression.



Cancer cells from prostate adenocarcinoma (panel A) and colon adenocarcinoma (panel D) show total loss or diminished expression of PTEN when SP218 is used. In contrast, nuclear staining (panel B and C, arrows) in cancer cells is present for clones D4.3 and 138G6. Diffuse cytoplasmic and stromal staining are prominent for clones D4.3 and 138G6. But interestingly, the stromal cell components (fibroblasts, lymphocytes and endothelial cells) are stained with similar intensities across all images. This suggests that there is non-specific staining in stromal and cancer area with the CST clones (D4.3 and 138G6) when compared with the Spring Bioscience clone.

Catalogue numbers

M5180	0.1 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide
M5182	0.5 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide
M5184	1.0 ml rabbit monoclonal antibody purified by protein A/G in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide
M5181	7.0 ml pre-diluted rabbit monoclonal antibody purified by protein A/G in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide

Intended use	For research use only. Not for use in diagnostic procedures.
Clone	SP218
Immunogen	Synthetic peptide derived from the C-terminus of human PTEN protein
IG isotype	Rabbit IgG
IHC positive control	Prostate, prostate adenocarcinoma
Applications	IHC-P, WB, FACS
Species reactivity (tested)	Human
Species reactivity (predicted)	Dog, frog, mouse

Spring Bioscience
 US: spring.orders@ventana.roche.com
 INTL: spring.intlorders@ventana.roche.com
 Technical Support: spring.tech@ventana.roche.com
 Other Information: spring.info@ventana.roche.com
 Toll free (800) 787-6896
 Tel (925) 474-8440
 Fax (925) 474-8469

www.springbio.com

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