





PTEN Polyclonal Antibody

Catalog Number PA5-20418 Product data sheet

Details	
Size	100 μg
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	A 15 amino acid peptide from near the amino terminus of human PTEN.
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	0.02% sodium azide
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C

Species Reactivity		
Species reactivity	Human, Mouse	
Published species	Human	
Tested Applications	Dilution *	
Immunoprecipitation (IP)	Assay-dependent	
Western Blot (WB)	1-2 μg/mL	
Published Applications		
In vitro Assay (IV)	See 1 publications below	
Western Blot (WB)	See 1 publications below	
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own		

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

A suggested positive control is P815 cell lysate. PA5-20418 can be used with blocking peptide PEP-0535.

Background/Target Information

PTEN was identified as a tumor suppressor that is mutated in a large number of cancers at high frequency. The PTEN gene is a phosphatidylinositol-3, 4, 5-trisphosphate 3-phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this protein preferentially dephosphorylates phosphoinositide substrates. PTEN negatively regulates intracellular levels of phosphatidylinositol-3, 4, 5-trisphosphate in cells and functions as a tumor suppressor by negatively regulating AKT/PKB signaling pathway. PTEN plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Also, PTEN may be a negative regulator of insulin signaling and glucose metabolism in adipose tissue. The nuclear monoubiquitinated form possesses greater apoptotic potential, whereas the cytoplasmic nonubiquitinated form of PTEN induces less tumor suppressive ability.

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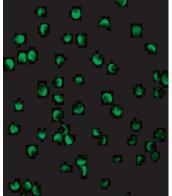
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Product Images For PTEN Polyclonal Antibody

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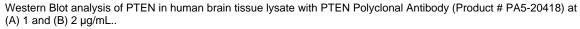
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PTEN Antibody (PA5-20418) in ICC/IF

Immunofluorescence of PTEN in P815 cells with PTEN Polyclonal Antibody (Product # PA5-20418) at 2 µg/mL.

PTEN Antibody (PA5-20418) in WB



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PubMed References	For PTEN Polyclonal Antibody
1 In vitro Assay Refere	nces
Species / Dilution	Summary
	PA5-20418 was used in Western Blot, In vitro Assay experiments to present RedoxiFluor.
Human / Not Cited	Free radical biology & medicine (2022; 181: 118) "RedoxiFluor: A microplate technique to quantify target-specific protein thiol redox state in relative percentage and molar terms." Author(s):Tuncay A,Noble A,Guille M,Cobley JN PubMed Article URL:http://dx.doi.org/10.1016/j.freeradbiomed.2022.01.023
1 Western Blot Referen	ces
Species / Dilution	Summary
Human / Not Cited	PA5-20418 was used in Western Blot, In vitro Assay experiments to present RedoxiFluor.
	Free radical biology & medicine (2022; 181: 118) "RedoxiFluor: A microplate technique to quantify target-specific protein thiol redox state in relative percentage and molar terms." Author(s):Tuncay A,Noble A,Guille M,Cobley JN PubMed Article URL:http://dx.doi.org/10.1016/j.freeradbiomed.2022.01.023

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