## PTEN Monoclonal Mouse Antibody (PTEN/2110)



## **Product Description**

PTEN (phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase) contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. It was identified as a tumor suppressor that is mutated in a large number of cancers, including sporadic brain, breast, kidney, and prostate cancers.

Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

**Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email <a href="mailto:order@biotium.com">order@biotium.com</a> to inquire about stock status and lead times before placing your order.

Catalog number key for antibody number 2110, Anti-PTEN (PTEN/2110)

## Product attributes

Antibody type  Primary  Host species  Mouse  Clonality  Monoclonal  Clone  PTEN/2110  Isotype  IgG2b, kappa  Molecular weight  S5 kDa  Synonyms  BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin homolog; Phosphatase and tensin like protein; Phosphatidylinositol 3,4,5-trisphosphata 3-phosphatase and dual-specificity protein phosphatase; PTEN; PTEN1; TEP1  Human gene symbol  PTEN  Entrez gene ID  5278  SwissProt  P60484  Unigene  500466; 729457  Immunogen  Recombinant full-length human PTEN protein  Nucleus & cytoplasm  Overlified antibody application  Nucleus & cytoplasm  IHC (FFPE) (verified)  Higher concentration may be required for direct detection with secondary antibody, Immunoistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6,0, for 10-20 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6,0, for 10-20 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6,0, for 10-20 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6,0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control  MCF-7 or HeLa Cells. Prostate, Breast, Liver, Renal Carcinoma.  Shipping condition  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  PBS/0.05% BSA, Purified; DSA-free: 1 mg/mL in PBS/0.05% BSA, Purified; 0.2 mg/mL	Product attributes			
Antibody type Primary  Host species Mouse  Clonality Monoclonal  Clone PTEN/2110  Isotype IgG2b, kappa  Molecular weight 55 kDa  Synonyms BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin homolog; Phosphatase and dual-specificity protein phosphatase; PTEN; PTEN1; TEP1  Human gene symbol PTEN  Entrez gene ID 5278  SwissProt P60484  Unigene 500466; 729457  Immunogen Recombinant full-length human PTEN protein  Antibody target cellular localization  Verified antibody applications  Species reactivity Human  Antibody application notes Higher concentration may be required for direct detection with secondary antibody, Immunohistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control MCF-7 or HeLa Cells. Prostate, Breast, Liver, Renal Carcinoma.  Shipping condition Room temperature  Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas  Signal transduction, Tumor suppressors  Product origin recommended in the bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in	Antibody number	#2110		
Host species Mouse Clonality Monoclonal Clone PTEN/2110 Isotype IgG2b, kappa Molecular weight 55 kDa Synonyms BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin homolog; Phosphatase and tensin	Antibody reactivity (target)	PTEN		
Clone   PTEN/2110   Isotype   IgG2b, kappa   Molecular weight   55 kDa   Synonyms   BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin Homolog; Phosphatase and tensin Homolog; Phosphatase and densin Homolog; Phosphatase; PTEN; PTEN1; TEP1   Human gene symbol   PTEN   Entrez gene ID   5278   SwissProt   P60484   Unigene   500466; 729457   Immunogen   Recombinant full-length human PTEN protein   Antibody target cellular   localization   Verified antibody application Nucleus & cytoplasm   IHC (FFPE) (verified)   Species reactivity   Human   Antibody application notes   Higher concentration may be required for direct detection with secondary antibody, Immunohistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user   Positive control   MCF-7 or HeLa Cells. Prostate, Breast, Liver, Renal Carcinoma.   Shipping condition   Room temperature   Storage Conditions   Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -36 °C   Shelf life   Guaranteed for at least 24 months from date of receipt when stored as recommended   Regulatory status   For research use only (RUO)   Antibody/conjugate   Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS io.05% BSA, Purified; 0.2 mg/mL in PBS io.05% BSA, Puri	Antibody type	Primary		
Clone PTEN/2110  Isotype IgG2b, kappa  Molecular weight 55 kDa  Synonyms BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin Homolog; Phosphatase and tensin Homolog; Phosphatase and tensin like protein; Phosphatase Incised on chromosome 10; Phosphatase and dual-specificity protein phosphatase; PTEN; PTEN1; TEP1  Human gene symbol PTEN  Entrez gene ID 5278  SwissProt P60484  Unigene 500466; 729457  Immunogen Recombinant full-length human PTEN protein  Nucleus & cytoplasm  localization  Verified antibody application notes  Higher concentration may be required for direct detection with secondary antibody, Immunohistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-rixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes of lowed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control MCF-7 or HeLa Cells. Prostate, Breast, Liver, Renal Carcinoma.  Shipping condition Room temperature  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status For research use only (RUO)  Antibody/conjugate formulation conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array Monospecific  Antibody research areas  Froduct origin Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in	Host species	Mouse		
IgG2b, kappa   IgG2b, kappa	Clonality	Monoclonal		
Molecular weight  Synonyms  BZS; DEC; GLM2; MHAM; Mutated in Multiple Advanced Cancers 1 (MMAC1); MMAC1 phosphatase and tensin homolog deleted on chromosome 10; Phosphatase and tensin homolog; Phosphatase and tensin homolog; Phosphatase and tensin homolog; Phosphatase and tensin like protein; Phosphatidylinositol 3,4,5-trisphosphatase; PTEN; PTEN1; TEP1  Human gene symbol  PTEN  Entrez gene ID  5278  SwissProt  P60484  Unigene  500466; 729457  Immunogen  Recombinant full-length human PTEN protein  Nucleus & cytoplasm  Verified antibody applications  Species reactivity  Human  Antibody application notes  Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin; 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes, Optimal dilution for a specific application should be determined by user  Positive control  MCF-7 or HeLa Cells. Prostate, Breast, Liver, Renal Carcinoma.  Shipping condition  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate  formulation  Conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array  Monospecific  Signal transduction, Tumor suppressors  Product origin  Product oragin or the product and portion and produced in	Clone	PTEN/2110		
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Immunogen   Recombinant full-length human PTEN protein	SwissProt	P60484		
Antibody target cellular localization  Verified antibody applications  IHC (FFPE) (verified)  IHC (FFPE) (validate)  IHC (FFPE) (validate	Unigene	500466; 729457		
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Shipping condition  Storage Conditions  Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as recommended  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% azide, Purified: 0.2 mg/mL in PBS without azide  Validated in protein array  Monospecific  Signal transduction, Tumor suppressors  Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in	Antibody application notes	primary antibody conjugates than for indirect detection with secondary antibody, Immunohistology (formalin): 1-2 ug/mL for 30 minutes at RT, Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM ci		
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Product origin  Product may contain either bovine serum albumin (BSA) from bovine serum (Bos taurus), or recombinant BSA produced in	Validated in protein array	Monospecific		
bovine serum (Bos taurus), or recombinant BSA produced in	Antibody research areas	Signal transduction, Tumor suppressors		
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Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNC74	CF®740	742/767	633-685	775/50	CF®740 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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