

## Anti-Phospho-PI3 Kinase p110 beta (Ser1070) Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Chicken, Dog, Pig, Cow, Horse, Guinea Pig)
Molecular Weight:	Theoretical: 110-123 kDa. Actual: 110 kDa.
Purification:	Protein A purified

### Applications

- Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-phospho-PI3 Kinase p110 beta (Ser1070) Polyclonal Antibody, Unconjugated (TMAB-01478) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-phospho-PI3 Kinase p110 beta (Ser1070) Polyclonal Antibody, Unconjugated (TMAB-01478) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-phospho-PI3 Kinase p110 beta (Ser1070) Polyclonal Antibody, Unconjugated (TMAB-01478) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated (TMAB-01478) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.
- Sample:

Lane 1: Human MCF-7 cell lysates

Lane 2: Human K562 cell lysates

Primary: Anti-phospho-PI3 Kinase p110 beta (Ser1070) (TMAB-01478) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 110-123 kDa

Observed band size: 110 kDa
- Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated

Verified Activity:

(TMAB-01478) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

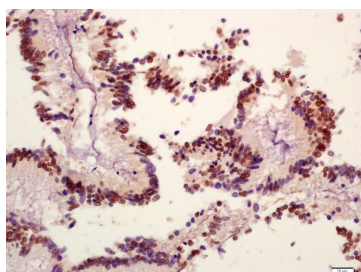
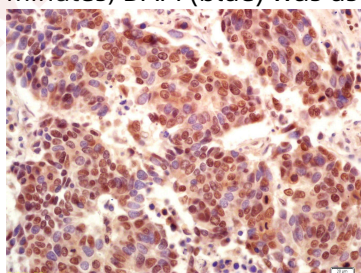
7. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated (TMAB-01478) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

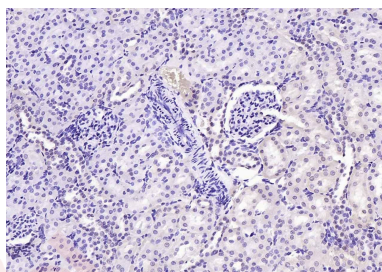
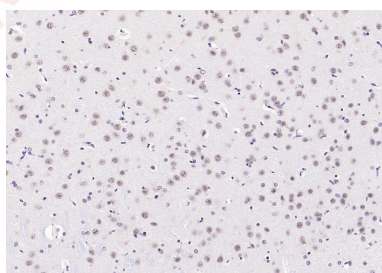
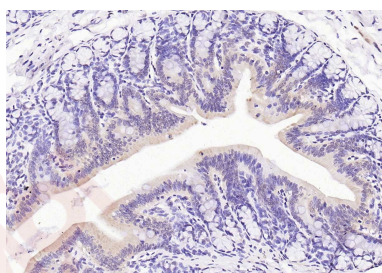
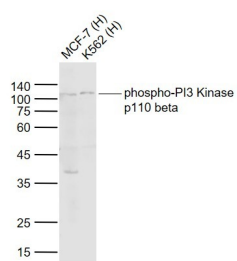
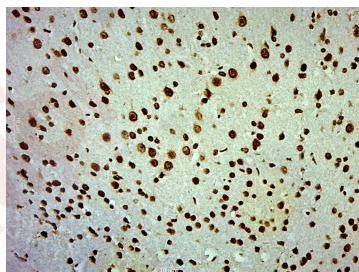
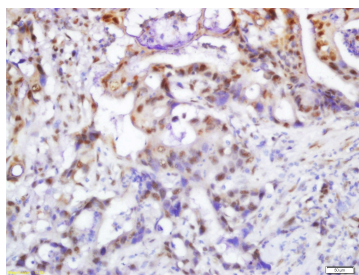
8. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated (TMAB-01478) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

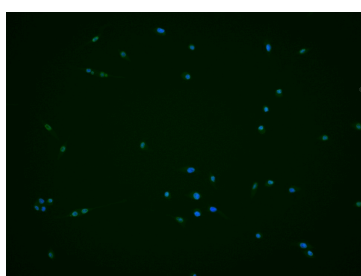
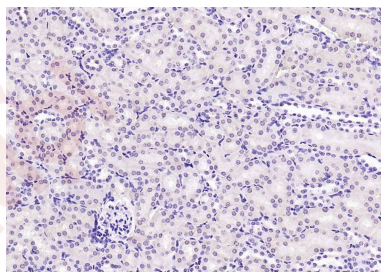
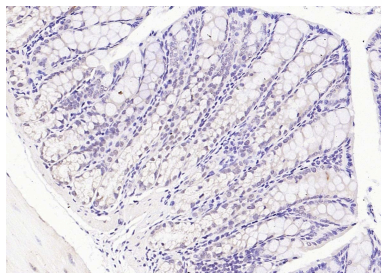
9. Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated (TMAB-01478) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) Polyclonal Antibody, Unconjugated (TMAB-01478) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

11. A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (phospho-PI3 Kinase p110 beta (Ser1070)) polyclonal Antibody, Unconjugated (TMAB-01478) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.







Application: ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthesised phosphopeptide: human PI3 Kinase p110 beta around the phosphorylation site of Ser1070

Antigen Species: Human

Gene ID: 5291

Uniprot ID: P42338

Synonyms: Phosphatidylinositol 3 kinase catalytic beta polypeptide;PI3K beta;Pik3cb;PI3-kinase subunit beta;phosphoinositide 3 kinase catalytic beta polypeptide;5-bisphosphate 3-kinase catalytic subunit beta isoform;Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit beta;PtdIns-3-kinase subunit p110-beta;Phosphatidylinositol-4;p-PI3 Kinase p110 beta (S1070);PtdIns-3-kinase subunit beta;PtdIns 3 kinase p110;PI3 Kinase p110 beta (p-Ser1070);p-PI3Kβ(Ser1070);PIK3C1;PI3 Kinase p110 beta (p-S1070);p110 BETA;PI 3-kinase C2β;PI3KCB;PI3Kbeta;p110beta;Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit beta isoform;PI3K;p-PI3 Kinase p110 beta (Ser1070);PI3-kinase p110 subunit beta;5-bisphosphate 3-kinase 110 kDa catalytic subunit beta;PK3CB

Biology Area: Kinases/Phosphatases,TLR Signaling,Other Kinases,Lipid Kinases

Research Background

This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011].

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481