

## Anti-Phospho-PI 3 Kinase p110 delta (Tyr524) Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 115 kDa. Actual: 115 kDa.
Purification:	Protein A purified

### Applications

1. Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), 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-PI 3 Kinase p110 delta (Tyr524) Polyclonal Antibody, Unconjugated (TMAB-11135) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

2. Blank control: U937.

Primary Antibody (green line): Rabbit Anti-phospho-PI 3 Kinase p110 delta (Tyr524) antibody (TMAB-11135)

Dilution: 2 µg /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-PE

Verified Activity: Dilution: 1 µg /test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at PBST. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

3. Sample:

Lane 1: Rat Thymus Lysates

Lane 2: Human HT-1080 cell Lysates

Primary: Anti-phospho-PI 3 Kinase p110 delta (Tyr524) (TMAB-11135) at 1/1000 dilution

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

Predicted band size: 115 kDa

Observed band size: 115 kDa

Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2µg/Test

## A DRUG SCREENING EXPERT

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### Properties

**Stability & Storage:** Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

**Shipping:** Shipping with blue ice.

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### Antigen Details

**Immunogen:** KLH conjugated Synthesised phosphopeptide: human PIK3CD around the phosphorylation site of Tyr524

**Antigen Species:** Human

**Gene ID:** 5293

**Uniprot ID:** O00329

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### Research Background

PI3-Kinases (PI3-Ks) are a family of lipid kinases that are implicated in signal transduction. PI3-K consists of two subunits; p85 and p110. The p85 subunit localizes PI3-K activity to the plasma membrane while the p110 subunit contains the catalytic domain of PI3-K. Four isoforms of p110 have been found; the alpha, beta, gamma, and the delta subunit. The delta isoform is predominantly expressed in leukocytes and has been shown to interact with p85 and GTP-bound Ras via its SH2/SH3 domain.

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