Data Sheet (Cat.No.TMAB-01480)

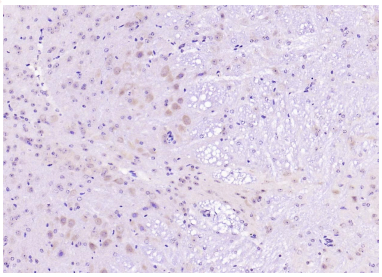
Anti-Phospho-PIK3CA (Tyr317) Polyclonal Antibody

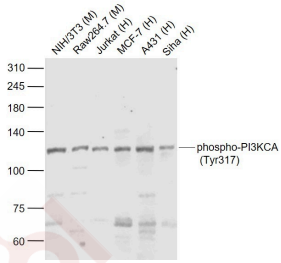
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat)
Molecular Weight:	Theoretical: 124 kDa. Actual: 110 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. 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-PI3KCA (Tyr317)) Polyclonal Antibody, Unconjugated (TMAB-01480) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 2. Sample: Lane 1: NIH/3T3 (Mouse) Cell Lysate at 30 μg Lane 2: Raw264.7 (Mouse) Cell Lysate at 30 μg Lane 3: Jurkat (Human) Cell Lysate at 30 μg Lane 4: MCF-7 (Human) Cell Lysate at 30 μg Lane 5: A431 (Human) Cell Lysate at 30 μg Lane 6: Siha (Human) Cell Lysate at 30 μg Primary: Anti-phospho-PI3KCA (Tyr317) (TMAB-01480) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 110/120 kDa Observed band size: 110 kDa





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

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 PI3KCA around the phosphorylation site of Tyr317
Antigen Species:	Human
Gene ID:	5290
Uniprot ID:	P42336
Synonyms:	PIK3CA (p-Tyr317);PIK3CA (p-Y317);p-PIK3CA (Tyr317);p-PIK3CA (Y317)
Biology Area:	Signal transducers,Signal transduction,TLR Signaling,Lipid Kinases

Research Background

PI3-Kinases (PI3-Ks) are a family of lipid kinases that are implicated in signal transduction. Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The p85 subunit localize PI3-K activity to the plasma membrane while the p110 subunit contains the catalytic domain of PI3-K which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdInsP2. Four isoforms of p110 has been found; alpha, beta, gamma, and the delta subunit. The alpha isoform, also known as PI3KCA, is a transforming oncogene that was shown to have activating mutations in nine types of cancers such as colon, brain, breast and stomach.

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