

Anti-PI 3 Kinase p110 delta Antibody (6K824)

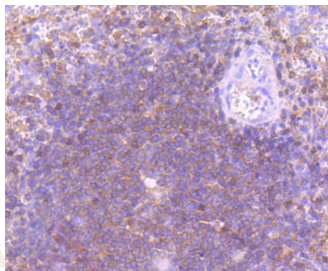
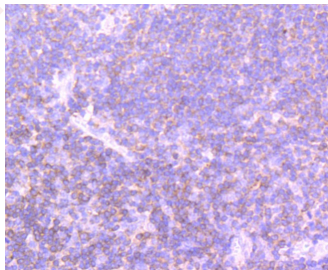
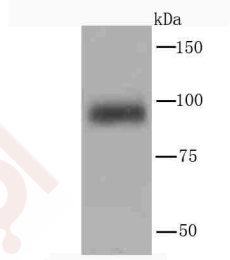
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 110 kDa.
Clone:	6K824
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of PI 3 Kinase p110 delta on mouse spleen tissue lysate using anti-PI 3 Kinase p110 delta antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PI 3 Kinase p110 delta antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-PI 3 Kinase p110 delta antibody. Counter stained with hematoxylin.



Application:	IHC,WB
Recommended	WB: 1:500; IHC: 1:50-200

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: Recombinant Protein

Uniprot ID: O00329

Synonyms: 5-bisphosphate 3-kinase catalytic subunit delta isoform;PtdIns 3 kinase p110;APDS;PtdIns-3-kinase subunit delta;PI 3 Kinase p110 d;PI 3 Kinase p110 δ ;Phosphoinositide 3 kinase C; Phosphatidylinositol 4,5 bisphosphate 3 kinase 110 kDa catalytic subunit delta;PIK3R1; Phosphatidylinositol 3 kinase catalytic delta polypeptide;IMD14;p85-ALPHA;PI3K; Phosphoinositide 3 kinase, catalytic, delta polypeptide variant p37delta;PK3CD; Phosphatidylinositol-4;PK3CD_HUMAN;p110delta;PI3-kinase subunit delta;PI3 kinase p110 subunit delta;Phosphoinositide 3 kinase B;Phosphatidylinositol 45 bisphosphate 3 kinase catalytic subunit delta isoform;Phosphoinositide 3 kinase catalytic delta polypeptide; p110dp85a;Pik3cd;PI3Kdelta;5-bisphosphate 3-kinase 110 kDa catalytic subunit delta;PtdIns 3 kinase subunit p110 delta;Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit delta isoform;GRB1;PI3K-delta;Phosphatidylinositol 4,5 bisphosphate 3 kinase, catalytic subunit delta;p110d;PtdIns-3-kinase subunit p110-delta

Research Background

Phosphatidylinositol 3-kinase (PI 3-kinase) is composed of p85 and p110 subunits. p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85 α and p85 β), each possessing one SH3 and two SH2 domains. Various p110 forms have been identified. p110 α and p110 β interact with p85 α , and p110 α has also been shown to interact with p85 β in vitro. It has been shown to bind p85 α and β , but it apparently does not phosphorylate these subunits. p110 δ has the capacity to autophosphorylate and results in the nearly complete inactivation of the lipid kinase activity. Interestingly, p110 γ does not interact with the p85 subunits and has been shown to be activated by α and $\beta\gamma$ heterotrimeric G proteins. Two p110 δ isoforms have been identified and are widely expressed. Isoform 1 is expressed predominantly in leukocytes while isoform 2 is expressed in normal thymus, lung and spleen tissues.

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