

## Anti-PIK3R1 Antibody (5D427)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5D427
Purification:	Affinity-chromatography

## Applications

Verified Activity:	1. IHC image of TMAH-00980 diluted at 1:50 and staining in paraffin-embedded human lung tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.63% DAB.
	2. IHC image of TMAH-00980 diluted at 1:50 and staining in paraffin-embedded human rectal cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.63% DAB.
Application:	ELISA, IHC
Recommended	IHC: 1:50-1:200.

## 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:	A synthetic peptide: Human PIK3R1
Antigen Species:	Human
Gene ID:	5295
Uniprot ID:	P27986
Synonyms:	Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha;PtdIns-3-kinase regulatory subunit alpha;Phosphatidylinositol 3-kinase regulatory subunit alpha;PtdIns-3-kinase regulatory subunit p85-alpha;GRB1;PI3-kinase regulatory subunit alpha;PI3K regulatory subunit alpha;PI3-kinase subunit p85-alpha
Biology Area:	Cancer, Immunology, Signal transduction

## Research Background

Binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating

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the association of the p110 catalytic unit to the plasma membrane. Necessary for the insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues. Plays an important role in signaling in response to FGFR1, FGFR2, FGFR3, FGFR4, KITLG/SCF, KIT, PDGFRA and PDGFRB. Likewise, plays a role in ITGB2 signaling. Modulates the cellular response to ER stress by promoting nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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