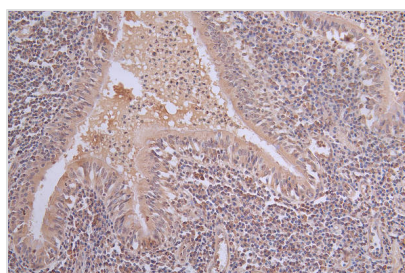




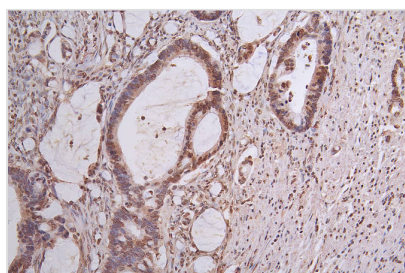
# PIK3R1 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA101461A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P27986
<b>Immunogen</b>	A synthesized peptide derived from Human PIK3R1
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer;Immunology;Signal transduction
<b>Gene Names</b>	PIK3R1
<b>Clone No.</b>	13E7

## Image



IHC image of CSB-RA101461A0HU diluted at 1:50 and staining in paraffin-embedded human lung tissue performed on a Leica Bond<sup>TM</sup> 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.



IHC image of CSB-RA101461A0HU diluted at 1:50 and staining in paraffin-embedded human rectal cancer performed on a Leica Bond<sup>TM</sup> 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.



## Description

The PIK3R1 recombinant monoclonal antibody is generated using in vitro expression systems developed by cloning the DNA sequences of PIK3R1 antibodies from immunoreactive rabbits. The immunogen used in this process is a synthesized peptide derived from the human PIK3R1 protein. Subsequently, the genes encoding the PIK3R1 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to facilitate the expression of the antibody. Following expression, the PIK3R1 recombinant monoclonal antibody undergoes affinity-chromatography purification. It is rigorously tested for functionality in ELISA and IHC applications, demonstrating reactivity with the human PIK3R1 protein during these laboratory evaluations.

PIK3R1 is a critical regulatory protein that plays a central role in controlling the PI3K signaling pathway. This pathway influences a wide range of cellular functions, including cell growth, proliferation, survival, metabolism, and immune responses. Dysregulation of PIK3R1 or the PI3K pathway can have significant implications in various diseases, including cancer and metabolic disorders.