

PI3K p85 alpha Monoclonal Antibody (6G10)

Catalog NumberMA5-17150

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	1:10,000
Type	Antibody	Flow Cytometry (Flow)	1:200-1:400
Clone	6G10	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Immunogen	Purified recombinant fragment of human PIK3R1 (amino acids: 159-388) expressed in E. Coli.	Western Blot (WB)	1:500-1:2,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	1:100
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Protein G		
Storage buffer	PBS		
Contains	0.05% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-17150 targets PIK3R1 in indirect ELISA, FACS, ICC, IHC, IF and WB applications and shows reactivity with Human and Mouse samples. The MA5-17150 immunogen is purified recombinant fragment of human PIK3R1 (amino acids: 159-388) expressed in E. Coli. MA5-17150 detects PIK3R1 which has a predicted molecular weight of approximately 83.6kDa.

Background/Target Information

Phosphatidylinositol 3-kinase (PIK3) is a signaling protein that phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. Signaling is initiated when upstream tyrosine kinase receptors or G protein coupled receptors are bound by their ligands. It binds to activated (phosphorylated) protein-Tyr kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. During insulin stimulation, it also binds to IRS-1. Mutations in the gene can result in Agammaglobulinemia 7, SHORT syndrome, or Immunodeficiency 36.

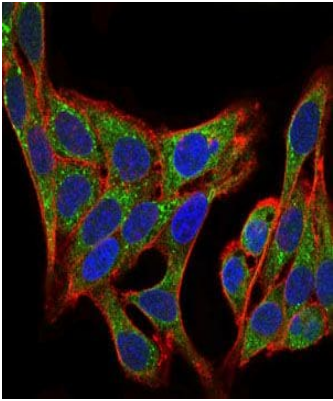
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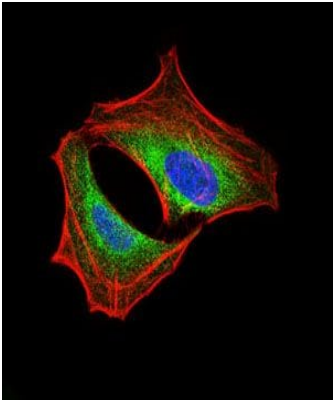
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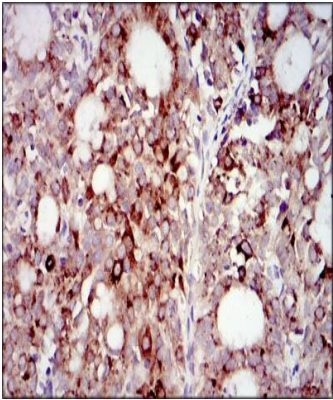
Product Images For PI3K p85 alpha Monoclonal Antibody (6G10)



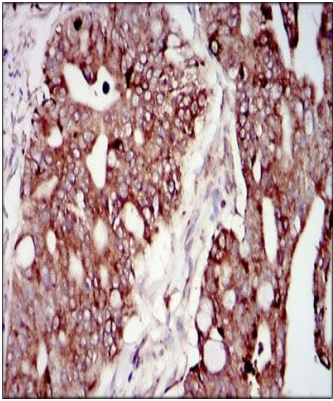
PI3K p85 alpha Antibody (MA5-17150) in ICC/IF
Immunofluorescence analysis of HepG2 cells using PIK3R1 monoclonal antibody (Product # MA5-17150) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



PI3K p85 alpha Antibody (MA5-17150) in ICC/IF
Immunofluorescence analysis of HeLa cells using PIK3R1 monoclonal antibody (Product # MA5-17150) (Green). Blue: DRAQ5 fluorescent DNA dye. Red: actin filaments have been labeled with phalloidin.



PI3K p85 alpha Antibody (MA5-17150) in IHC (P)
Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using PIK3R1 monoclonal antibody (Product # MA5-17150) followed with DAB staining.

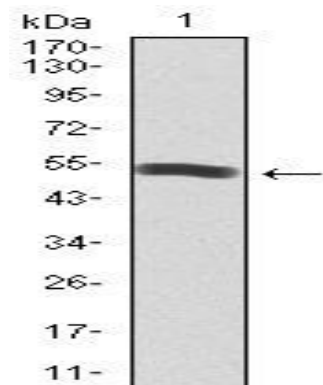


PI3K p85 alpha Antibody (MA5-17150) in IHC (P)
Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PIK3R1 monoclonal antibody (Product # MA5-17150) followed with DAB staining.

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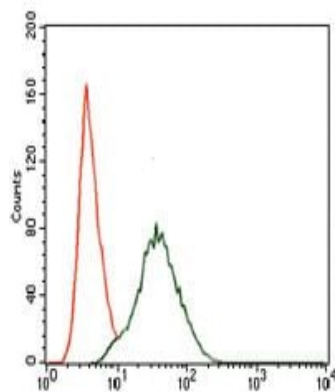
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PI3K p85 alpha Antibody (MA5-17150) in WB

Western blot analysis of PIK3R1 using a PIK3R1 monoclonal antibody (Product # MA5-17150) against a human PIK3R1 recombinant protein.



PI3K p85 alpha Antibody (MA5-17150) in Flow

Flow cytometric analysis of NIH3T3 cells using PIK3R1 monoclonal antibody (Product # MA5-17150) (green) and negative control (red).

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