## PIK3C3 Antibody

## PACO19162

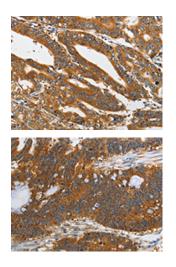


AssayGenie	٩

Size:	Protein Background:	
50ul	Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational	
Reactivity:	formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. Also hydroxylates HIF2A. Has a preference for the CODD site for both HIF1A and HIF2A. Hydroxylation on the NODD site by EGLN3 appears to require prior hydroxylation on the CODD site. Hydroxylated HIFs are then targeted for proteasomal degradation via the von Hippel- Lindau ubiquitination complex. Under hypoxic conditions, the hydroxylation reaction is attenuated allowing HIFs to escape degradation resulting in their translocation to the nucleus, heterodimerization with HIF1B, and increased expression of hypoxy-inducible genes. ELGN3 is the most important isozyme in limiting physiological activation of HIFs	
Human, Mouse, Rat		
Source:		
Rabbit		
lsotype:		
lgG		
Applications:	(particularly HIF2A) in hypoxia. Also hydroxylates PKM in hypoxia, limiting glycolysis.	
ELISA, IHC	Gene ID: PIK3C3	
Recommended dilutions:		
ELISA:1:1000-1:5000, IHC:1:50-1:200	Uniprot	
	Q8NEB9	
	Synonyms:	
	phosphatidylinositol 3-kinase, catalytic subunit type 3	
	Immunogen:	
	Synthetic peptide of human PIK3C3.	

## Storage:

-20° C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol



The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using PACO19162(PIK3C3 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: x—200).

The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using PACO19162(PIK3C3 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: x—200).