

For Research Use Only

# PI3 Kinase p110 Alpha Recombinant antibody

Catalog Number: 82796-4-RR



## Basic Information

<b>Catalog Number:</b> 82796-4-RR	<b>GenBank Accession Number:</b> BC113601	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5290	<b>CloneNo.:</b> 1B4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P42336	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoinositide-3-kinase, catalytic, alpha polypeptide	
<b>Immunogen Catalog Number:</b> AG16586	<b>Calculated MW:</b> 1068 aa, 124 kDa	
	<b>Observed MW:</b> 110 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HeLa cells, HEK-293 cells, COLO 320 cells, Jurkat cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

## Background Information

PIK3CA belongs to the PI3/PI4-kinase family. It phosphorylates PtdIns, PtdIns4P and PtdIns(4,5)P2 with a preference for PtdIns(4,5)P2. Defects in PIK3CA are associated with colorectal cancer (CRC). Defects in PIK3CA are associated with breast cancer. Defects in PIK3CA are associated with ovarian cancer. Defects in PIK3CA may underlie hepatocellular carcinoma (HCC). Defects in PIK3CA are a cause of keratosis seborrheic (KERSEB).

## Storage

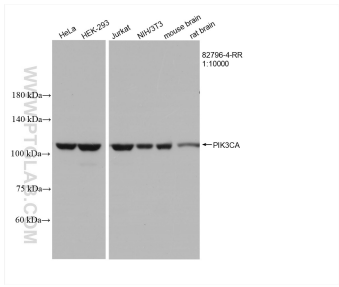
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

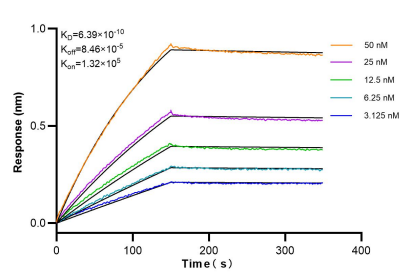
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82796-4-RR (PIK3CA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82796-4-RR against Human PI3 Kinase p110 Alpha were performed. The affinity constant is 0.639 nM.