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**Product Name: PI3 Kinase p85 alpha Mouse Monoclonal Antibody****Catalog #: AMM85081**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | WB,IHC  |
| <b>Reactivity</b>    | Human,Mouse,Rat   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG1  |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.               |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide,0.5%protective protein and 50% glycerol. |
| <b>Purification</b>  | Affinity Purification   |

**Application**

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | WB 1:500-1:1000,IHC 1:50-1:100             |
| <b>Molecular Weight</b> | Calculated MW: 84 kDa; Observed MW: 84 kDa |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | PI3 Kinase p85 alpha  |
| <b>Alternative Names</b> | PIK3R1; GRB1; Phosphatidylinositol 3-kinase regulatory subunit alpha; PI3-kinase regulatory subunit alpha; PI3K regulatory subunit alpha; PtdIns-3-kinase regulatory subunit alpha; Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; PI3-kinase subunit p85-alpha; PtdIns-3-kinase regulatory subunit p85-alpha |
| <b>Gene ID</b>           | 5295.0  |
| <b>SwissProt ID</b>      | P27986  |
| <b>Immunogen</b>         | Purified recombinant protein expressed in E.coli.   |

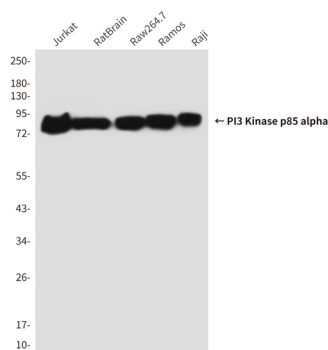
**Background**

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. 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.

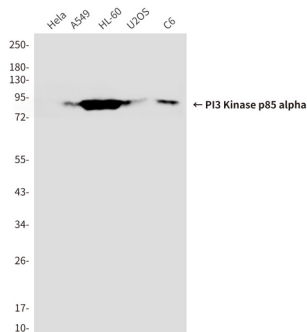
## Research Area

TGF-beta signaling pathway, PI3K-Akt signaling pathway, Jak-STAT signaling pathway

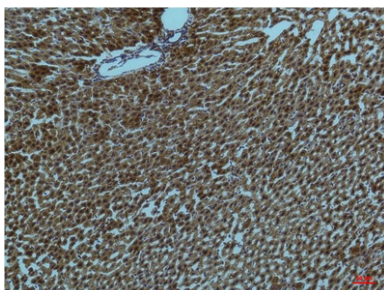
## Image Data



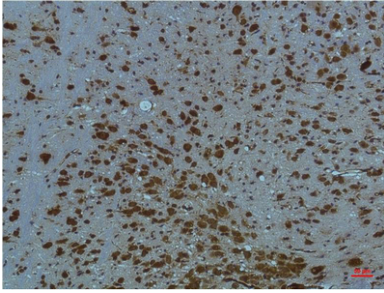
Western blot analysis of PI3 Kinase p85 alpha in Jurkat, rat Brain, Raw264.7, Ramos, Raji lysates using PI3 Kinase p85 alpha antibody



Western blot analysis of PI3 Kinase p85 alpha in HeLa, A549, HL-60, U2OS, C6 lysates using PI3 Kinase p85 alpha antibody.



Immunohistochemistry analysis of paraffin-embedded rat Liver Tissue using PI3 Kinase p85 alpha antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemical analysis of paraffin-embedded Human tonsils using PI3 Kinase p85 alpha antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.