

PI3-Kinase p85 beta (2C3) Rabbit Monoclonal Antibody

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Catalog # AP93828

Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	O00459 , Q63788
Reactivity	Rat, Human
Clonality	Monoclonal
Calculated MW	81545

Additional Information

Gene ID	5296
Dilution	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 ICC~~N/A IP~~N/A
Storage Conditions	-20°C

Protein Information

Name	PIK3R2
Function	Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P2 (Phosphatidylinositol 4,5- biphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein- tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (PubMed: 23604317). Promotes nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin- dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement (By similarity).

Background

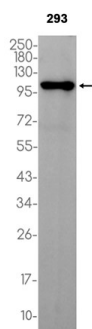
Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2012]

Images

Western blot analysis of extracts from A431 cells using AP93828 at 1:1000.



Western blot analysis of extracts from 293 cells using AP93828 at 1:1000.



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