

VPS34 polyclonal antibody

Catalog: BS91443

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the 3' OH position of the inositol ring of inositol lipids. PI 3-kinase p100 (phosphoinositide-3-kinase p100 subunit), also known as hVps34 or PIK3C3 (phosphoinositide-3-kinase, class III), is a member of the PI3/PI4-kinase family. It is ubiquitously expressed with predominant expression in skeletal muscle and is believed to participate in endosome to lysosome transport, multivesicular body formation, autophagy and retrograde endosome to Golgi transport. PI 3-kinase p100 is the catalytic subunit of class III PI3Ks and forms a heterodimer with p150, a regulatory subunit of class 3 PI3Ks. PI 3-kinase p100 exclusively phosphorylates phosphatidylinositol to produce PtdIns3P. Unlike class I PI3Ks, whose activities are enhanced in the presence of magnesium, PI 3-kinase p100 activity is enhanced by manganese. Its activity can also be regulated by nutrients, suggesting an important role of PI-3 kinase p100 in the regulation of mTOR protein synthesis and autophagy.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

100 kDa

Swiss-Prot:

Q8NEB9(Human) Q6PF93(Mouse) O88763(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000

IHC:1:50-1:200

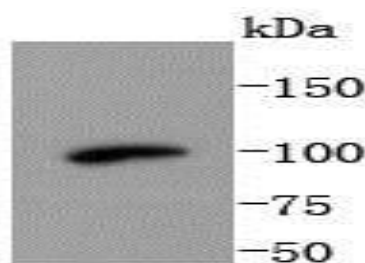
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

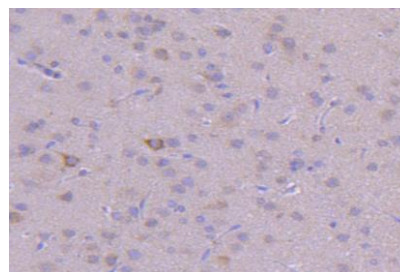
Specificity:

VPS34 polyclonal antibody detects endogenous levels of VPS34 protein.

DATA:



Western blot analysis of PI 3 Kinase Class 3 on C2C12 cells lysates using anti-PI 3 Kinase Class 3 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PI 3 Kinase Class 3 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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