

Anti-VPS34 Antibody [PSH10-64]

HA723229



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 102 kDa
Clone number:	PSH10-64

Description: Class III PI 3-kinase is a subgroup of the enzyme family, phosphoinositide 3-kinase that share a common protein domain structure, substrate specificity and method of activation. There is only one known class III PI 3-kinase, Vps34, which is also the only PI 3-kinase expressed in all eukaryotic cells. In humans it is encoded by the PIK3C3 gene. In human cells Vps34 associates with a regulatory subunit, PIK3R4(p150, Vps15). Vps34 was first identified in a *Saccharomyces cerevisiae* (budding yeast) screen for proteins involved vesicle-mediated vacuolar protein sorting (hence Vps). A number of proteins containing a phosphoinositide binding domain specific for PtdIns(3)P that function in cellular protein trafficking have been identified.

Immunogen: Recombinant protein within human VPS34 aa 251-887.

Positive control: HeLa cell lysate, PC-3 cell lysate, C2C12 cell lysate, C6 cell lysate, Mouse heart tissue lysate, Mouse brain tissue lysate, Rat heart tissue lysate.

Subcellular location: Midbody, Late endosome, Cytoplasmic vesicle, autophagosome.

Database links: SwissProt: Q8NEB9 Human | Q6PF93 Mouse | O88763 Rat

Recommended Dilutions:

WB 1:2,000-1:5,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

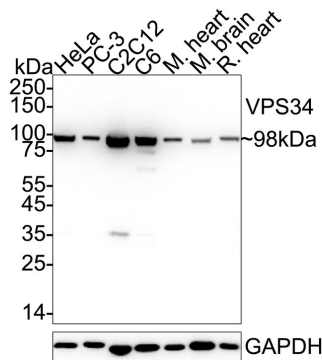
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of VPS34 on different lysates with Rabbit anti-VPS34 antibody (HA723229) at 1/5,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: PC-3 cell lysate (20 µg/Lane)
 Lane 3: C2C12 cell lysate (20 µg/Lane)
 Lane 4: C6 cell lysate (20 µg/Lane)
 Lane 5: Mouse heart tissue lysate (40 µg/Lane)
 Lane 6: Mouse brain tissue lysate (40 µg/Lane)
 Lane 7: Rat heart tissue lysate (40 µg/Lane)

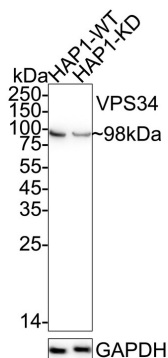
Predicted band size: 102 kDa
 Observed band size: 98 kDa

Exposure time: 15 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA723229) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of VPS34 on different lysates with Rabbit anti-VPS34 antibody (HA723229) at 1/2,000 dilution.



Lane 1: HAP1-parental cell lysate
 Lane 2: HAP1-VPS34 KD cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 102 kDa
 Observed band size: 98 kDa

Exposure time: 4 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (HA723229) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jia M et al. ULK1-mediated metabolic reprogramming regulates Vps34 lipid kinase activity by its lactylation. *Sci Adv.* 2023 Jun
2. Liu Y et al. Targeting VPS34 in autophagy: An update on pharmacological small-molecule compounds. *Eur J Med Chem.* 2023 Aug

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