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KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody

Rabbit monoclonal Antibody
Catalog # AGI2215

Specification

KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q99570
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 153 kDa, observed, 149 kDa KDa**
Gene Name	**PIK3R4**
Aliases	**PIK3R4; Phosphoinositide-3-Kinase Regulatory Subunit 4; VPS15; P150; Phosphoinositide 3-Kinase Regulatory Subunit 4; Phosphoinositide 3-Kinase Adaptor Protein; PI3-Kinase Regulatory Subunit 4; PI3-Kinase P150 Subunit; EC 2.7.11.1; Phosphoinositide-3-Kinase, Regulatory Subunit 4, P150; Phosphoinositide-3-Kinase, Regulatory Subunit 4; Phosphatidylinositol 3-Kinase-Associated P150**
Immunogen	**A synthesized peptide derived from human PIK3R4**

KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**30849**

Other Names
Phosphoinositide 3-kinase regulatory subunit 4, PI3-kinase regulatory subunit 4, 2.7.11.1, PI3-kinase p150 subunit, Phosphoinositide 3-kinase adaptor protein, PIK3R4, VPS15 {ECO:0000303|PubMed:23878393}

KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody - Protein Information

Name PIK3R4

Synonyms VPS15 {ECO:0000303|PubMed:23878393}

Function
Regulatory subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (PubMed:<a

href="http://www.uniprot.org/citations/20643123" target="_blank">20643123).

Cellular Location
Late endosome. Cytoplasmic vesicle, autophagosome. Membrane; Lipid-anchor. Note=As component of the PI3K complex I localized to pre-autophagosome structures. As component of the PI3K complex II localized predominantly to endosomes. Localizes also to discrete punctae along the ciliary axoneme (By similarity) {ECO:0000250|UniProtKB:Q8VD65, ECO:0000305}

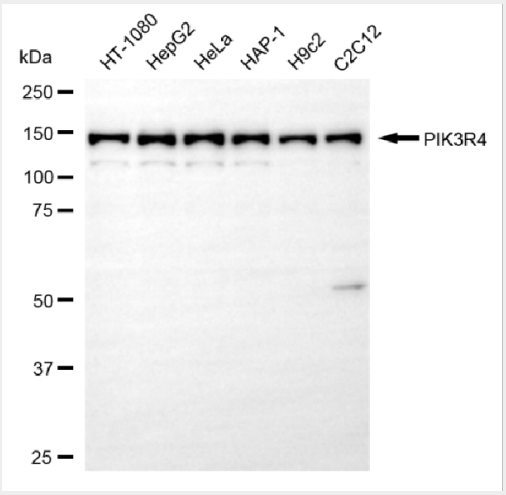
Tissue Location
Ubiquitously expressed.

KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PIK3R4 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PIK3R4 antibody (Cat#AGI2215). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PIK3R4 antibody (Cat#AGI2215, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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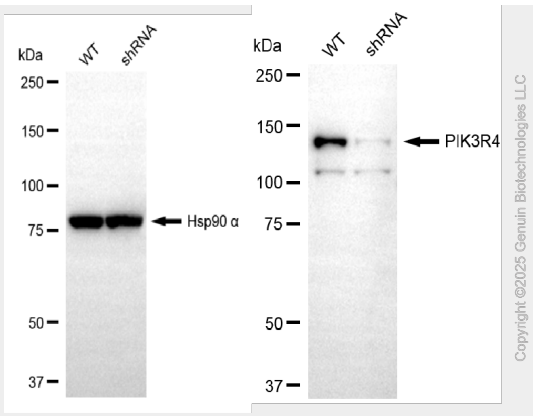
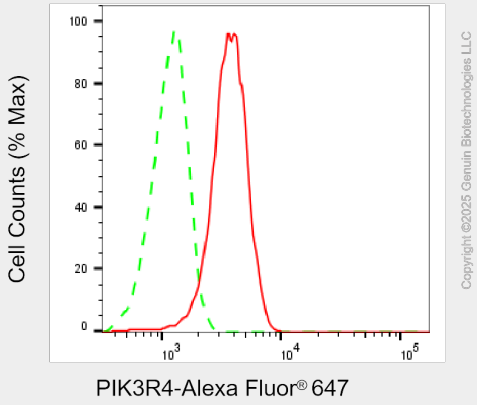


Western blotting analysis using anti-PIK3R4 antibody (Cat#AGI2215). PIK3R4 expression in wild-type (WT) and PIK3R4 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PIK3R4 antibody (Cat#AGI2215, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PIK3R4 expression in HepG2 cells using anti-PIK3R4 antibody (Cat#AGI2215, 1:2,000). Green, isotype control; red, PIK3R4.