

Datasheet for ABIN3044260

anti-PIK3R2 antibody (Middle Region)



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2 Images

Overview

Quantity:	100 µg
Target:	PIK3R2 (PI3K p85b)
Binding Specificity:	AA 447-461, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3R2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Phosphatidylinositol 3-kinase regulatory subunit beta(PIK3R2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human PIK3R2(447-461aa KVYHQYQDKSREYD), identical to the related rat and mouse sequences.
Sequence:	KVYHQYQDK SREYD
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Phosphatidylinositol 3-kinase regulatory subunit

Product Details

beta(PIK3R2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.

Gene Name: phosphoinositide-3-kinase, regulatory subunit 2(beta)

Protein Name: Phosphatidylinositol 3-kinase regulatory subunit beta(PI3-kinase regulatory subunit beta/PI3K regulatory subunit beta/PtdIns-3-kinase regulatory subunit beta)

Purification: Immunogen affinity purified.

Target Details

Target: PIK3R2 (PI3K p85b)

Alternative Name: PIK3R2 ([PI3K p85b Products](#))

Background: PIK3R2 (Phosphatidylinositol 3-kinase, regulatory subunit 2), also called p85-Beta, is an enzyme that in humans is encoded by the PIK3R2 gene. The PIK3R2 gene is mapped on 19p13.11. 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.

Synonyms: p85 antibody|p85 beta antibody|P85B antibody|P85B_HUMAN antibody|Phosphatidylinositol 3 kinase antibody|Phosphatidylinositol 3 kinase regulatory beta subunit antibody|Phosphatidylinositol 3 kinase regulatory subunit beta antibody|Phosphatidylinositol 3 kinase regulatory subunit polypeptide 2 antibody|Phosphatidylinositol 3 kinase, regulatory subunit, polypeptide 2(p85 beta) antibody|Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta antibody|Phosphatidylinositol 3-kinase regulatory subunit beta antibody|Phosphoinositide 3 kinase regulatory subunit 2(beta) antibody|Phosphoinositide 3 kinase regulatory subunit 2 antibody|Phosphoinositide 3 kinase regulatory subunit polypeptide 2(p85 beta) antibody|Phosphoinositide 3 kinase regulatory subunit polypeptide 2 antibody|Phosphoinositide 3 kinase, regulatory subunit 2(beta) antibody|Phosphoinositide 3 kinase, regulatory subunit 2(p85 beta) antibody|PI3 kinase p85 beta subunit antibody|PI3 kinase p85 subunit beta antibody|PI3-kinase regulatory subunit beta antibody|PI3-kinase subunit p85-beta antibody|PI3K antibody|PI3K regulatory subunit beta antibody|PIK3R 2 antibody|PIK3R2 antibody|PtdIns 3 kinase p85 beta antibody|PtdIns-3-kinase regulatory subunit beta antibody|PtdIns-3-kinase regulatory subunit p85-beta antibody

UniProt: [O00459](#)

Target Details

Pathways: [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

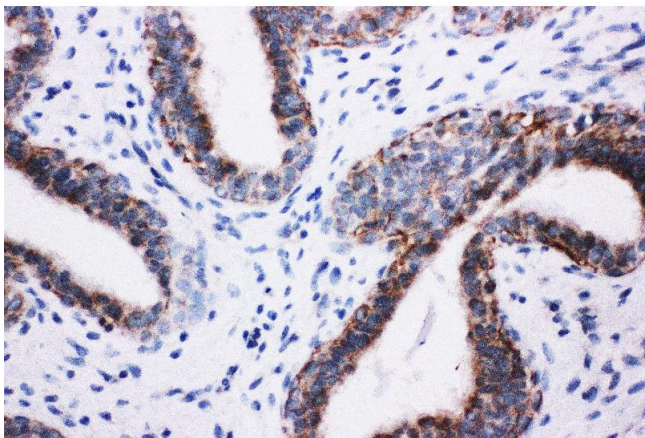
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months



Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti-PI 3 Kinase p85 beta antibody, IHC(P) IHC(P):
Human Mammary Cancer Tissue