

Datasheet for ABIN544888

**anti-PIK3R1 antibody (Tyr580)**[2 Images](#)[3 Publications](#)[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 400 µL   |
| Target:              | PIK3R1 (PI3K p85a)   |
| Binding Specificity: | Tyr580   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This PIK3R1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|                   |   |
|-------------------|---|
| Purpose:          | Rabbit polyclonal antibody raised against synthetic peptide of PIK3R1.                                |
| Immunogen:        | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding Y580 of human PIK3R1. |
| Cross-Reactivity: | Human   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | PIK3R1 (PI3K p85a)  |
| Alternative Name: | PIK3R1 / GRB1 ( <a href="#">PI3K p85a Products</a> )  |
| Gene ID:          | 5295  |
| Pathways:         | <a href="#">TCR Signaling</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Muscle Cell</a> |

## Target Details

[Differentiation](#), [Skeletal Muscle Fiber Development](#), [Hepatitis C](#), [Protein targeting to Nucleus](#),  
[VEGF Signaling](#), [BCR Signaling](#), [Warburg Effect](#)

## Application Details

Application Notes: Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50)  
Western Blot (1:1000)  
The optimal working dilution should be determined by the end user.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: In PBS (0.09 % sodium azide)

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

## Publications

Product cited in: Kobayashi, Suzuki, Kanayama, Terao: "Genetic down-regulation of phosphoinositide 3-kinase by bikunin correlates with suppression of invasion and metastasis in human ovarian cancer HRA cells." in: **The Journal of biological chemistry**, Vol. 279, Issue 8, pp. 6371-9, (2004) ([PubMed](#)).

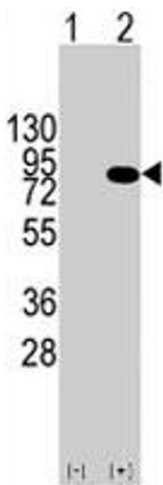
Liu, Radisky, Wang, Bissell: "Polarity and proliferation are controlled by distinct signaling pathways downstream of PI3-kinase in breast epithelial tumor cells." in: **The Journal of cell biology**, Vol. 164, Issue 4, pp. 603-12, (2004) ([PubMed](#)).

Sun, Yang, Feldman, Sun, Bhalla, Jove, Nicosia, Cheng: "Activation of phosphatidylinositol 3-kinase/Akt pathway by androgen through interaction of p85alpha, androgen receptor, and Src." in: **The Journal of biological chemistry**, Vol. 278, Issue 44, pp. 42992-3000, (2003) ([PubMed](#)).



Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PIK3R1 polyclonal antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blotting

**Image 2.** Western blot analysis of PIK3R1 (arrow) using rabbit PIK3R1 polyclonal antibody . 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PIK3R1 gene (Lane 2) (Origene Technologies).