Datasheet for ABIN334459

# anti-PIK3CA antibody (Internal Region)

2 Images | 1 Publication

Go to Product page

## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | PIK3CA |
| Binding Specificity: | Internal Region |
| Reactivity: | Human |
| Host: | Goat |
| Clonality: | Polyclonal |
| Conjugate: | This PIK3CA antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), ELISA |

## Product Details

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|---|---|
| Purpose: | PIK3CA / P110alpha |
| Immunogen: | Peptide with sequence C-HQWLKDKNKGEIYD, from the internal region of the protein sequence according to NP_006209.2. |
| Sequence: | HQWLKDKNKG EIYD |
| Isotype: | IgG |
| Cross-Reactivity: | Cow, Dog, Human, Mouse, Rat |
| Purification: | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| Grade: | Verified |

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## Target Details

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|---|---|
| Target: | PIK3CA |
| Alternative Name: | PIK3CA (PIK3CA Products) |
| Background: | PIK3CA, p110-alpha, phosphoinositide-3-kinase, catalytic, alpha polypeptide , MGC142161, MGC142163, PI3K, PI3-kinase p110 subunit alpha, PtdIns-3-kinase p110, phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha, phosphatidylinositol 3-kinase, catalyti |
| Gene ID: | 5290, 18706, 170911 |
| NCBI Accession: | NP_006209 |
| Pathways: | PI3K-Akt Signaling, RTK Signaling, TCR Signaling, AMPK Signaling, Interferon-gamma Pathway, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Inositol Metabolic Process, Hepatitis C, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, VEGF Signaling |

## Application Details

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| Application Notes: | Immunohistochemistry: In paraffin embedded Human Brain (Cerebral Cortex) shows cytoplasm stained in the cell bodies. Recommended concentration: 2-3 µg/mL. Paraffin embedded Human Heart. Recommended concentration: 5 µg/mL. This antibody has been successfull<br>Western Blot: Preliminary experiments in lysates of cell lines A431, HeLa and Jurkat gave no specific signal but low background (at antibody concentration up to 1 µg/mL).<br>Peptide ELISA: antibody detection limit dilution 1:128000. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 0.5 mg/mL |
| Buffer: | Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Minimize freezing and thawing. |

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## Handling

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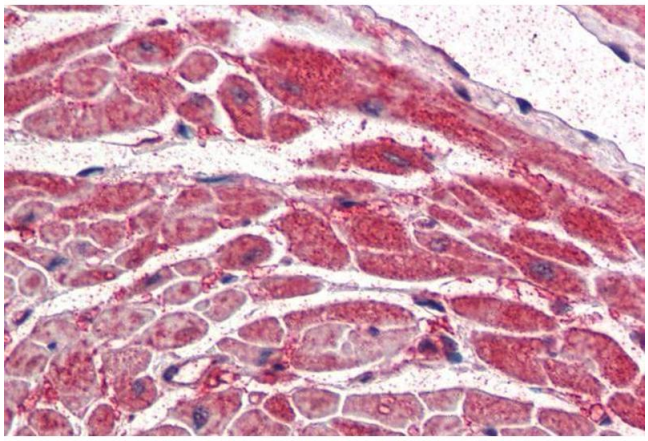
|---|---|
| Storage: | -20 °C |
| Storage Comment: | Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable. |

## Publications

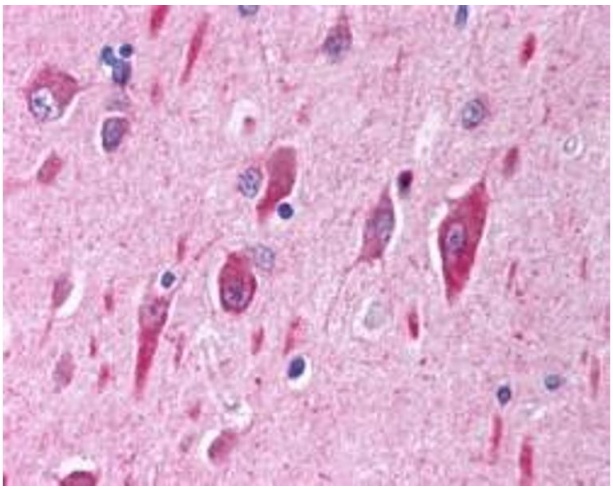
| | |
|---|---|
| Product cited in: | Abubaker, Bavi, Al-Haqawi, Jehan, Munkarah, Uddin, Al-Kuraya: "PIK3CA alterations in Middle Eastern ovarian cancers." in: **Molecular cancer**, Vol. 8, pp. 51, (2009) (PubMed). |

## Images



**Immunohistochemistry**

**Image 1.** ABIN334459 (5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



**Immunohistochemistry**

**Image 2.** ABIN334459 (2.5µg/ml) staining of paraffin embedded Human Brain (Cerebellar Cortex). Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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