

ARG41384 anti-PIK3CD / p110 delta antibody

Package: 100 μl Store at: -20°C

Summary

| Product Description | Rabbit Polyclonal antibody recognizes PIK3CD / p110 delta |
|---------------------|---|
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | lgG |
| Target Name | PIK3CD / p110 delta |
| Species | Human |
| Immunogen | Synthetic peptide derived from Human PIK3CD / p110 delta. |
| Conjugation | Un-conjugated |
| Alternate Names | APDS; Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit delta; PI3K-delta; PI3K; EC 2.7.1.153; Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit delta isoform; p110D; PI3-kinase subunit delta; P110DELTA; PI3Kdelta; IMD14; PtdIns-3-kinase subunit delta; PtdIns-3-kinase subunit p110-delta; p110delta |

Application Instructions

| Application table | Application | Dilution | |
|-------------------|-------------|--|--|
| | ICC/IF | 1:50 - 1:200 | |
| | WB | 1:500 - 1:2000 | |
| Application Note | | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | ~ 119 kDa | | |

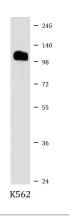
Properties

| Form | Liquid |
|---------------------|---|
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| Gene Symbol | PIK3CD |
|-----------------------|--|
| Gene Full Name | phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta |
| Background | Phosphoinositide 3-kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response. The protein encoded by this gene is a class I PI3K found primarily in leukocytes. Like other class I PI3Ks (p110-alpha p110-beta, and p110-gamma), the encoded protein binds p85 adapter proteins and GTP-bound RAS. However, unlike the other class I PI3Ks, this protein phosphorylates itself, not p85 protein.[provided by RefSeq, Jul 2010] |
| Function | Phosphoinositide-3-kinase (PI3K) that phosphorylates PftdIns(4,5)P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3). PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Mediates immune responses. Plays a role in B-cell development, proliferation, migration, and function. Required for B-cell receptor (BCR) signaling. Mediates B-cell proliferation response to anti-IgM, anti-CD40 and IL4 stimulation. Promotes cytokine production in response to TLR4 and TLR9. Required for antibody class switch mediated by TLR9. Involved in the antigen presentation function of B-cells. Involved in B-cell chemotaxis in response to CXCL13 and sphingosine 1-phosphate (S1P). Required for T-cell receptor (TCR) signaling. Mediates TCR signaling events at the immune synapse. Activation by TCR leads to antigen-dependent memory T-cell migration and retention to antigenic tissues. Together with PIK3CG participates in T-cell development. Contributes to T-helper cell expansion and differentiation. Required for T-cell migration mediated by homing receptor SELL/CD62L, CCR7 and S1PR1 and antigen dependent recruitment of T-cells. Together with PIK3CG is involved in natural killer (NK) cell development and migration to wards the sites of inflammation. Participates in NK cell receptor activation. Have a role in NK cell maturation and cytokine production. Together with PIK3CG is involved in neutrophil respiratory burst. Have important roles in mast-cell development and migration. Required for allergen-IgE-induced degranulation and cytokine release. The lipid kinase activity is required for allergen-IgE-induced degranulation and cytokine release. The lipid kinase activity is required for its biological function. Isoform 2 may be involved in stabilizing total RAS levels, resulting in increased ERK phosphorylation and increased PI3K activity. [|
| Calculated Mw | 119 kDa |
| РТМ | Autophosphorylation on Ser-1039 results in the almost complete inactivation of the lipid kinase activity. [UniProt] |
| Cellular Localization | Cytoplasm. [UniProt] |

Images



ARG41384 anti-PIK3CD / p110 delta antibody WB image

Western blot: K562 cell lysate stained with ARG41384 anti-PIK3CD / p110 delta antibody.