

Product datasheet

Anti-PI 3 Kinase p85 beta antibody ab71052

2 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-PI 3 Kinase p85 beta antibody |
| Description | Rabbit polyclonal to PI 3 Kinase p85 beta |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, WB, ELISA |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide corresponding to amino acid residues surrounding Y467 of human PI 3 Kinase p85 beta |
| Positive control | Lysate from transfected 293 cell lysate; Human brain tissue . |

Properties

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|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | Preservative: 0.09% Sodium Azide Constituents: PBS |
| Purity | Immunogen affinity purified |
| Purification notes | The antibody was purified through a protein A column, followed by peptide affinity purification. |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab71052** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

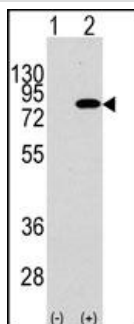
| Application | Abreviews | Notes |
|-------------|-----------|---|
| IHC-P | | 1/10 - 1/50. |
| WB | | 1/50 - 1/100. Predicted molecular weight: 82 kDa. |

| Application | Abreviews | Notes |
|-------------|-----------|---------|
| ELISA | | 1/1000. |

Target

| | |
|---|--|
| Function | Regulatory subunit of phosphoinositide-3-kinase (PI3K), a kinase that phosphorylates PtdIns(4,5)P ₂ (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP ₃). PIP ₃ plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Binds to activated (phosphorylated) protein-tyrosine kinases, through its SH2 domain, and acts as an adapter, mediating the association of the p110 catalytic unit to the plasma membrane. Indirectly regulates autophagy (PubMed:23604317). Promotes nuclear translocation of XBP1 isoform 2 in a ER stress- and/or insulin-dependent manner during metabolic overloading in the liver and hence plays a role in glucose tolerance improvement. |
| Involvement in disease | Megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome 1 |
| Sequence similarities | Belongs to the PI3K p85 subunit family. Contains 1 Rho-GAP domain. Contains 2 SH2 domains. Contains 1 SH3 domain. |
| Domain | The SH2 2 domain is required for interaction with FBXL2 and PTPN13. |
| Post-translational modifications | Phosphorylated in response to signaling from activated receptor-type protein kinases (PubMed:19690332, PubMed:20068231). Dephosphorylated by PTPRJ (PubMed:18348712). Dephosphorylated at Tyr-655 by PTPN13. Phosphorylation of Tyr-655 impairs while its dephosphorylation promotes interaction with FBXL2 and SCF(FBXL2)-mediated polyubiquitination (PubMed:23604317). Ubiquitinated. Polyubiquitination by the SCF(FBXL2) complex probably promotes proteasomal degradation of PIK3R2. |

Images



Western blot - PI 3 Kinase p85 beta (phospho Y467) antibody (ab71052)

All lanes : Anti-PI 3 Kinase p85 beta antibody (ab71052) at 1/50 dilution

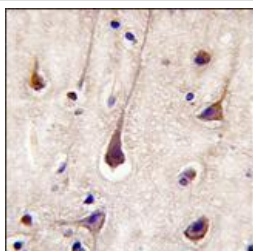
Lane 1 : 293 cell lysate, non transfected

Lane 2 : 293 cell lysate, transiently transfected with the PI 3 Kinase p85 beta gene

Lysates/proteins at 2 µg per lane.

Predicted band size: 82 kDa

Observed band size: 82 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - PI 3 Kinase p85 beta (phospho Y467) antibody (ab71052)

1/10 ab71052, staining PI 3 Kinase p85 beta in formalin fixed, paraffin embedded human brain tissue (peroxidase conjugated secondary antibody, DAB staining).

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