

Anti-PI3 Kinase p110 beta Rabbit Monoclonal Antibody

Catalog Number: M01091-1

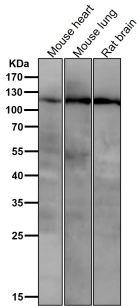
Overview

Product Name	Anti-PI3 Kinase p110 beta Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PI3 Kinase p110 beta Rabbit Monoclonal Antibody catalog # M01091-1. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal 30P53
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P42338

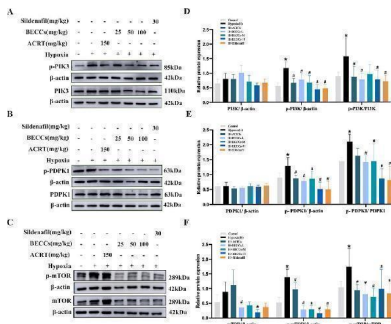
Technical Details

Immunogen	A synthesized peptide derived from human PI3 Kinase p110 beta
Isotype	IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200

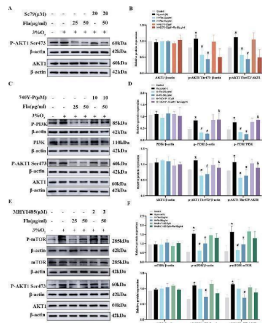
Anti-PI3 Kinase p110 beta Rabbit Monoclonal Antibody (M01091-1) Images



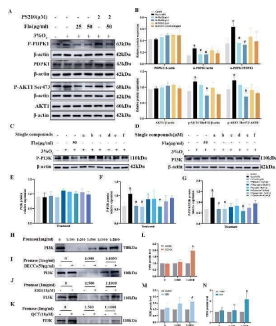
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



BECCs regulate PI3K, PDPK1, and mTOR protein levels in HAPH rats. (A-C) Primitive bands of p-PI3K, PI3K, p-PDPK1, PDPK1, p-mTOR, and mTOR by Western blots in lung tissues. (D-F) Quantitative evaluation of p-PI3K, PI3K, p-PDPK1, PDPK1, p-mTOR, and mTOR in lung tissues. n = 5. All data are represented as the mean ± SD. * p < 0.05 vs. control group and # p < 0.05 vs. hypoxia group. Index in PubMed under a CC BY license. PMID: 40385484

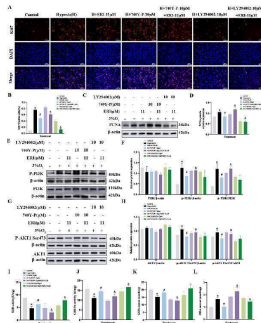


Flavonoids inhibit the proliferation of PSMCs under hypoxic conditions by inhibiting the PI3K/AKT axis. (A, B) Primitive bands and quantitative densities of p-AKT1 Ser473 and AKT1 with or without Sc79 (20 μM) by Western blots in PSMCs under 3% O₂. (C, D) Primitive bands and quantitative densities of p-PI3K, PI3K, p-AKT1 Ser473, and AKT1 with or without 740Y-P (10 μM) by Western blots in PSMCs under 3% O₂. (E, F) Primitive bands and quantitative densities of p-PDPK1, PDK1, p-AKT1 Ser473, and AKT1 with or without MYH1485 (2 μM) in PSMCs by Western blots under 3% O₂. n = 3. All data are represented as the mean ± SD. * p < 0.05 vs. control group, # p < 0.05 vs. 3% O₂ group, and p < 0.05 vs. 3% O₂ + Fla-50 ug/ml group. Index in PubMed under a CC BY license. PMID: 40385484

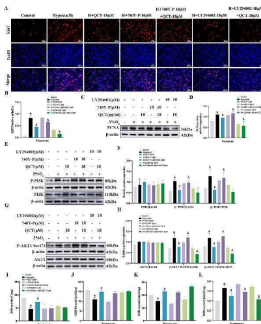


Eriocitrin and quercetin are responsible for anti-proliferation by targeting the PI3K protein in PSMCs under hypoxic conditions. ERI, eriocitrin; QCT, quercetin. (A, B) Primitive bands and quantitative evaluation of p-mTOR, mTOR, p-AKT1 (Ser473), and AKT1 with or without PS210 (2 μM) by Western blotting in PSMCs under 3% O₂. n = 3. All data are represented as the mean ± SD. * p < 0.05 vs. control group, # p < 0.05 vs. 3% O₂ group, and p < 0.05 vs. 3% O₂ + FLA-50 ug/ml group. (C-G) Primitive bands and quantitative densities of p-PI3K and PI3K by Western blots. n = 3. All data are represented as the mean ± SD. * p < 0.05 vs. control group and # p < 0.05 vs. 3% O₂ group. (H-N) BECC, ERI, and QCT treatment increased the stability of PI3K in PSMC protease lysates by the DARTS experiment. (H-K) Primitive Western blots of PI3K. (L-N) Quantitative

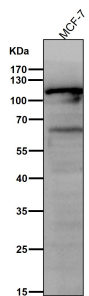
evaluation of PI3K levels. n = 3. All data are represented as the mean ± SD. * p < 0.05 vs. DMSO group. Index in PubMed under a CC BY license. PMID: 40385484



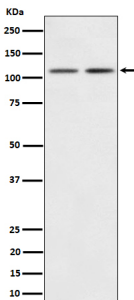
Treatment with eriocitrin in PASM proliferation and antioxidation under hypoxic conditions. (A, B) Eriocitrin in cell proliferation were assessed using Ki67 immunofluorescence and quantitative evaluation in hypoxia-induced PASM cells (n = 3, scale bar = 100 um). (C-H) Primitive Western blots and quantitative densities of PCNA, p-PI3K, PI3K, p-AKT1 (Ser473), AKT1 with or without 740Y-P (10 uM), LY294002 (10 uM), or eriocitrin (11 uM) in PASM cells under 3% O₂ for 24 h (I-L) Quantitative evaluation of SOD and GSH-Px activities and GSH and MDA contents in 3% O₂-induced PASM cells. n = 3. All data are represented as the mean ± SD. * p < 0.05 vs. control group, # p < 0.05 vs. 3% O₂ group, and p < 0.05 vs. 3% O₂ + ERI-11 uM. Index in PubMed under a CC BY license. PMID: 40385484



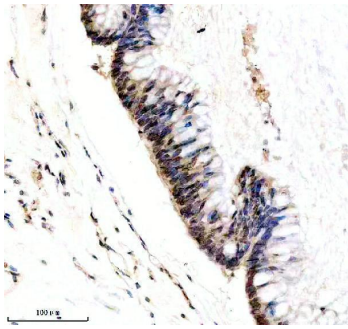
Treatment with quercetin in PASM proliferation and antioxidation under hypoxia. (A, B) Quercetin in cell proliferation were assessed using Ki67 immunofluorescence and quantitative evaluation in hypoxia-induced PASM cells (n = 3, scale bar = 100 um). (C-H) Primitive Western blots and quantitative densities of PCNA, p-PI3K, PI3K, p-AKT1 Ser473, AKT1 with or without 740Y-P(10 uM), LY294002(10 uM), or quercetin (18 uM) in PASM cells under 3% O₂ for 24 h (I-L) Quantitative evaluation of SOD and GSH-Px activities and GSH and MDA contents in 3% O₂-induced PASM cells. n = 3. All data represent mean ± SD. * p < 0.05 vs. control group, # p < 0.05 vs. 3% O₂ group, and p < 0.05 vs. 3% O₂ + QCT-18 uM. Index in PubMed under a CC BY license. PMID: 40385484



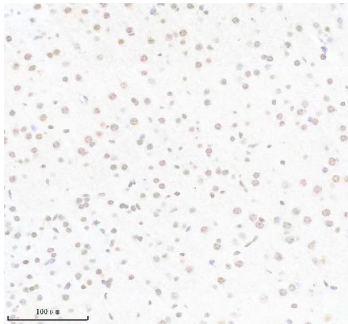
All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



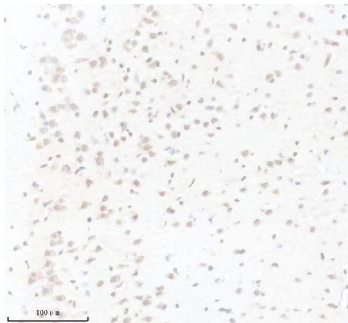
Western blot analysis of PI3 Kinase p110 beta expression in (1) 293 cell lysate; (2) Mouse Brain lysate.



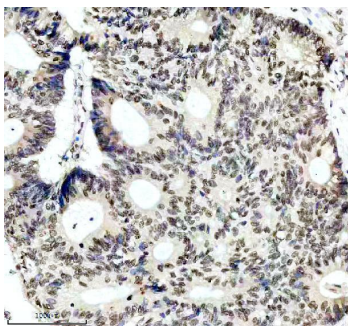
IHC analysis of PI3 Kinase p110 Beta/PIK3CB using anti-PI3 Kinase p110 Beta/PIK3CB antibody (M01091-1). PI3 Kinase p110 Beta/PIK3CB was detected in a paraffin-embedded section of human colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1: 50 rabbit anti-PI3 Kinase p110 Beta/PIK3CB Antibody (M01091-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of PI3 Kinase p110 Beta/PIK3CB using anti-PI3 Kinase p110 Beta/PIK3CB antibody (M01091-1). PI3 Kinase p110 Beta/PIK3CB was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1: 50 rabbit anti-PI3 Kinase p110 Beta/PIK3CB Antibody (M01091-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of PI3 Kinase p110 Beta/PIK3CB using anti-PI3 Kinase p110 Beta/PIK3CB antibody (M01091-1). PI3 Kinase p110 Beta/PIK3CB was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1: 50 rabbit anti-PI3 Kinase p110 Beta/PIK3CB Antibody (M01091-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of PI3 Kinase p110 Beta/PIK3CB using anti-PI3 Kinase p110 Beta/PIK3CB antibody (M01091-1). PI3 Kinase p110 Beta/PIK3CB was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1: 50 rabbit anti-PI3 Kinase p110 Beta/PIK3CB Antibody (M01091-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-PI3 Kinase p110 beta Rabbit Monoclonal Antibody

For Research Use Only. Not for use in diagnostic procedures.