Data Sheet (Cat.No.TMAC-03289)

Anti-PIK3R1 Antibody (9O121)

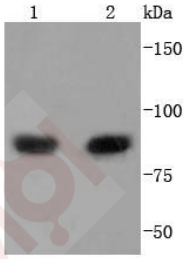
Product Details

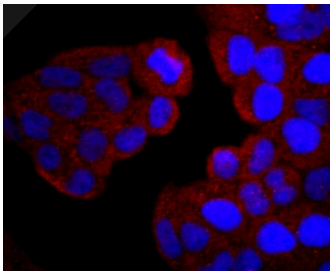
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 84 kDa.
Clone:	9O121
Purification:	ProA affinity purified

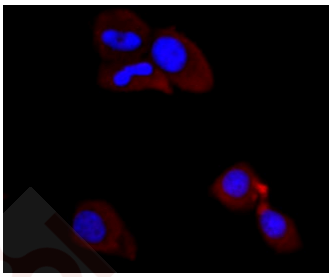
Applications

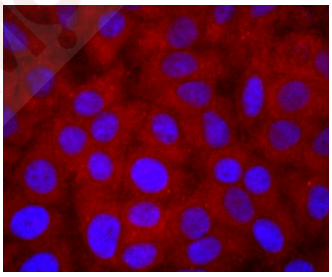
Verified Activity:	1. Western blot analysis of PI 3 Kinase p85 alpha on different lysates using anti-PI 3 Kinase p85 alpha antibody at 1/1,000 dilution. Positive control: Lane 1: MCF-7, Lane 2: Raji. 2. ICC staining PI 3 Kinase p85 alpha in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 3. ICC staining PI 3 Kinase p85 alpha in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 4. ICC staining PI 3 Kinase p85 alpha in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 5. ICC staining PI 3 Kinase p85 alpha in NIH/3T3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. 6. Flow cytometric analysis of HepG2 cells with PI 3 Kinase p85 alpha antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody. 7. Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using anti-PI 3 Kinase p85 alpha antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX. 8. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PI 3 Kinase p85 alpha antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX 9. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PI 3 Kinase p85 alpha antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX. 10. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-PI 3

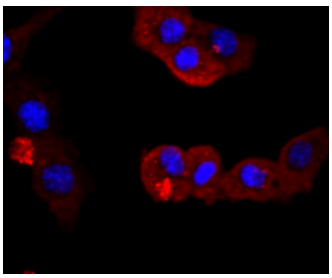
Kinase p85 alpha antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 8.0-8.4) for 20 minutes.The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody (1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

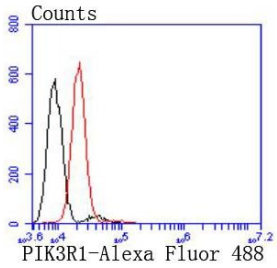


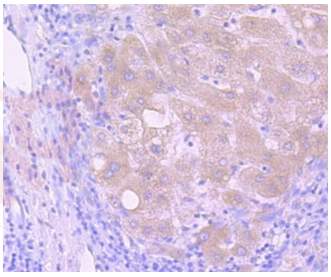


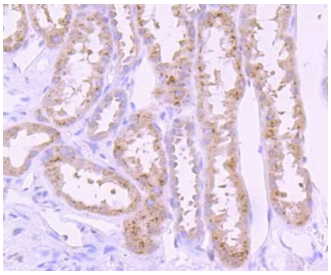


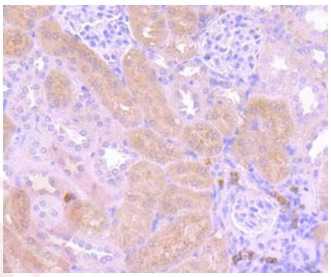


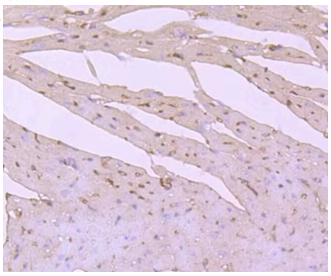












Application:	FCM,ICC/IF,IHC,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: C-terminal human PI 3 Kinase p85 alpha
Antigen Species:	human
Uniprot ID:	P27986
Synonyms:	PI 3-kinase p85α;Phosphatidylinositol 3-kinase regulatory subunit alpha;P85A;PI3-kinase subunit p85-alpha;Phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha;PI 3 Kinase p85 alpha;PI3-kinase p85 subunit alpha;PtdIns-3-kinase regulatory subunit p85-alpha;AGM7; p85;PtdIns-3-kinase regulatory subunit alpha;PI3-kinase regulatory subunit alpha;p85-ALPHA; IMD36;PI 3-kinase p85 α;PI3K regulatory subunit alpha;PI 3-kinase p85-α;PI3-kinase p85 subunit gamma;SH3_PI3K_p85alpha;phosphoinositide-3-kinase regulatory subunit 1;GRB1

Research Background

Phosphatidylinositol 3-kinase (PI 3-kinase) phosphorylates the 3' OH position of the inositol ring of inositol lipids and is composed of p85 and p110 subunits. PI 3-kinase p85 lacks PI 3-kinase activity and acts as an adapter, coupling p110 to activated protein tyrosine kinase. Two forms of p85 have been described (p85α and p85β), each possessing one SH3 and two SH2 domains. PI 3-kinase p85α, also known as GRB1, phosphatidylinositol 3-kinase regulatory 1 or p85, is a 724 amino acid protein that exists as four alternatively spliced isoforms. Involved in insulin metabolism, defects in the PI 3-kinase p85α gene have been linked to insulin resistance. PI 3-kinase p85α is polyubiquitinated in T-cells by Cbl-b, and has multiple phosphorylated amino acid residues, including a phosphorylated tyrosine residue at position 467.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481