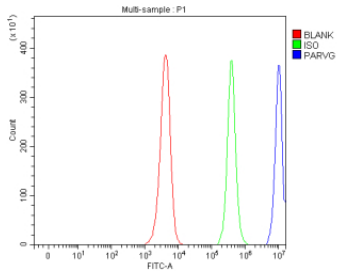
PARVG Antibody / Gamma Parvin (FY13195)

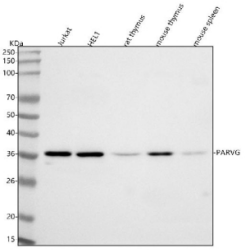
Catalog No.	Formulation	Size
FY13195	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9HBI0
Applications	Western Blot: 0.25-0.5ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This PARVG antibody is available for research use only.



Flow Cytometry analysis of JK cells using anti-PARVG antibody. Overlay histogram showing JK cells stained with (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PARVG antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



Western blot analysis of PARVG using anti-PARVG antibody. Lane 1: human Jurkat whole cell lysates, Lane 2: human HEL1 whole cell lysates, Lane 3: rat thymus tissue lysates, Lane 4: mouse thymus tissue lysates, Lane 5: mouse spleen tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PARVG antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using enhanced chemiluminescent. A specific band was detected for PARVG at approximately 37 kDa. The expected molecular weight of PARVG is ~37 kDa.

Description

PARVG antibody detects Gamma-parvin, a cytoskeletal adaptor protein that links integrins to actin filaments and regulates cell adhesion, motility, and signaling. The UniProt recommended name is Gamma-parvin (PARVG). This protein is a member of the parvin family of actin-binding proteins associated with focal adhesions and integrin-linked kinase (ILK) complexes.

Functionally, PARVG antibody identifies a 372-amino-acid cytoplasmic protein containing two calponin-homology (CH) domains that mediate actin binding and integrin interaction. PARVG participates in integrin-mediated adhesion signaling, influencing cell spreading, migration, and cytoskeletal dynamics. It contributes to mechanotransduction pathways in endothelial and immune cells.

The PARVG gene is located on chromosome 22q13.31 and is expressed in leukocytes, vascular smooth muscle cells, and skeletal muscle. PARVG regulates integrin activation and focal adhesion turnover, playing a key role in immune cell motility and vascular integrity.

Pathologically, altered PARVG expression has been linked to cancer cell migration, vascular remodeling, and inflammatory responses. Dysregulation of PARVG contributes to defective adhesion signaling and cytoskeletal organization. Research using PARVG antibody supports studies in integrin signaling, cytoskeletal remodeling, and vascular biology.

PARVG antibody is validated for western blotting, immunofluorescence, and immunohistochemistry to detect cytoskeletal and adhesion-associated proteins. NSJ Bioreagents provides PARVG antibody reagents optimized for research in adhesion signaling, actin dynamics, and immune cell motility.

Structurally, Gamma-parvin contains CH1 and CH2 domains that facilitate actin binding and ILK-PINCH complex formation. This antibody aids in analyzing PARVG's function in integrin-linked cytoskeletal networks and adhesion regulation.

Application Notes

Optimal dilution of the PARVG antibody should be determined by the researcher.

Immunogen

E.coli-derived human PARVG recombinant protein (Position: M1-E280) was used as the immunogen for the PARVG antibody.

Storage

After reconstitution, the PARVG antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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