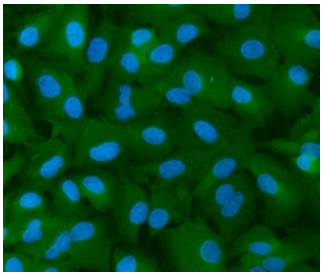
INF2 Antibody / Actin Regulation Protein Antibody (RQ7429)

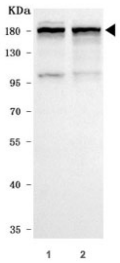
Catalog No.	Formulation	Size
RQ7429	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

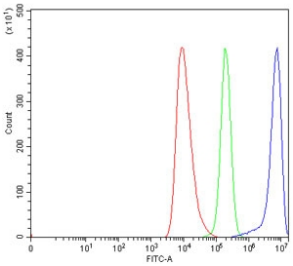
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q27J81
Localization	Cytoplasmic, perinuclear
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Immunoprecipitation: 2ug/500ug of lysate Direct ELISA: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This INF2 Antibody / Actin Regulation Protein Antibody is available for research use only.



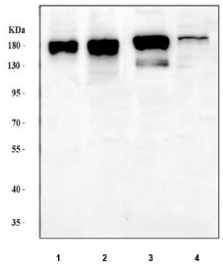
INF2 Antibody A549 Cell IF. Immunofluorescent staining of FFPE human A549 cells with INF2 Antibody (green) and DAPI nuclear counterstain (blue). HIER was performed by steaming tissue sections in pH 6 citrate buffer for 20 minutes prior to staining. INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, cellular structure regulation and intracellular organization pathways.



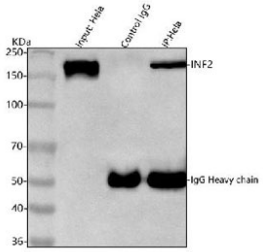
INF2 Antibody Human HeLa and A549 Cell WB. Western blot testing of human HeLa and A549 cell lysates with INF2 Antibody. Lane 1: HeLa; Lane 2: A549. Predicted molecular weight: ~136 kDa, with INF2 routinely observed at 170â€“180 kDa. INF2 Antibody / Actin Regulation Protein Antibody detects endogenous Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization, organelle dynamics and cell structure regulation pathways.



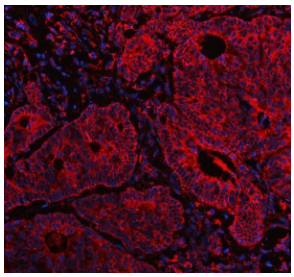
INF2 Antibody HEL Cell FACS. Flow cytometry testing of human HEL cells with INF2 Antibody at 1 ug/million cells. Cells were blocked with goat serum prior to incubation with the primary antibody. Red histogram represents cells alone, green represents isotype control and blue represents INF2 antibody staining. INF2 Antibody / Actin Regulation Protein Antibody demonstrates positive detection of Inverted Formin 2 expression in HEL cells and supports studies of actin cytoskeleton remodeling, intracellular organization and cell structure regulation pathways.



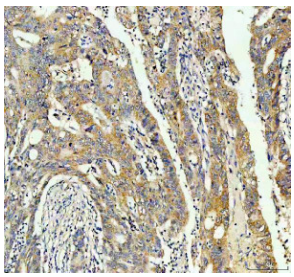
INF2 Antibody Human, Mouse and Rat WB. Western blot testing of human HeLa, human A549, rat C6 and mouse brain tissue lysates with INF2 Antibody. Lane 1: human HeLa; Lane 2: human A549; Lane 3: rat C6; Lane 4: mouse brain. Predicted molecular weight: ~136 kDa, with INF2 routinely observed at 170â€“180 kDa. INF2 Antibody / Actin Regulation Protein Antibody detects endogenous Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, organelle dynamics, intracellular organization and cell structure regulation pathways.



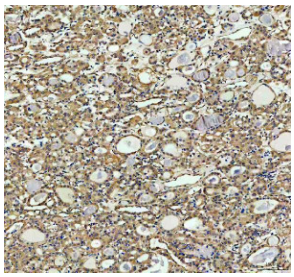
INF2 Antibody Human HeLa Cell IP. Immunoprecipitation of INF2 protein from 500 ug of human HeLa whole cell lysate using 2 ug of INF2 Antibody. Immunoprecipitated protein was analyzed by Western blot, with input lysate and control IgG samples included for comparison. INF2 Antibody / Actin Regulation Protein Antibody successfully enriches endogenous Inverted Formin 2 protein and supports studies of actin cytoskeleton remodeling, protein interactions, organelle dynamics and intracellular structural regulation pathways.



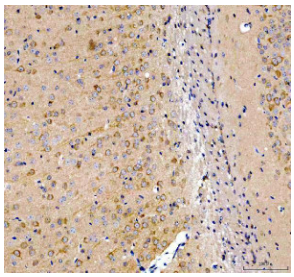
INF2 Antibody Human Intestine Cancer IF. Immunofluorescent staining of FFPE human intestine cancer tissue with INF2 Antibody at 5 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by Cy3 conjugated goat anti-rabbit IgG secondary antibody (red). Nuclei were counterstained with DAPI (blue). INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization and cell structure regulation pathways.



INF2 Antibody Human Colon Cancer IHC. Immunohistochemistry staining of FFPE human colon cancer tissue with INF2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization and cell structure regulation pathways.



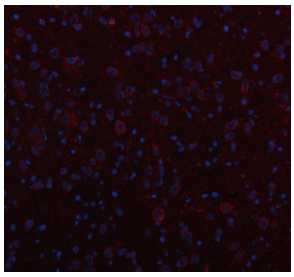
INF2 Antibody Human Thyroid Cancer IHC. Immunohistochemistry staining of FFPE human thyroid cancer tissue with INF2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization and cell structure regulation pathways.



INF2 Antibody Mouse Brain IHC. Immunohistochemistry staining of FFPE mouse brain tissue with INF2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, neuronal cell structure and intracellular organization pathways.



INF2 Antibody Rat Brain IHC. Immunohistochemistry staining of FFPE rat brain tissue with INF2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, neuronal cell biology and intracellular organization pathways.



INF2 Antibody Rat Brain IF. Immunofluorescent staining of FFPE rat brain tissue with INF2 Antibody at 5 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by Cy3 conjugated goat anti-rabbit IgG secondary antibody (red). Nuclei were counterstained with DAPI (blue). INF2 Antibody / Actin Regulation Protein Antibody demonstrates cytoplasmic staining consistent with Inverted Formin 2 expression and supports studies of actin cytoskeleton remodeling, neuronal cell structure and intracellular organization pathways.

Description

INF2 Antibody / Actin Regulation Protein Antibody detects Inverted Formin 2, a member of the formin family of proteins involved in actin cytoskeleton remodeling, cellular structure regulation and intracellular organization. INF2 is unique among formin proteins because it can promote both actin filament assembly and actin depolymerization, allowing dynamic control of cytoskeletal architecture. Through its regulation of actin turnover, INF2 contributes to processes including cell morphology, organelle positioning, vesicle movement and cellular response to structural changes. Its specialized role in actin dynamics makes INF2 an important target for studies of cytoskeleton regulation and cell biology.

INF2 contains conserved formin homology domains that regulate actin filament nucleation and elongation. Unlike many other formin proteins that primarily promote actin assembly, INF2 also contains regions that enhance actin filament disassembly, allowing rapid remodeling of actin networks. INF2 activity influences endoplasmic reticulum organization, mitochondrial dynamics, intracellular transport and interactions between organelles and the cytoskeleton. INF2 Antibody is commonly used by researchers investigating actin remodeling pathways, cytoskeletal organization and mechanisms controlling cellular architecture.

Research involving INF2 has expanded into areas including kidney disease, neurological disorders and membrane

trafficking biology. Mutations in INF2 have been associated with focal segmental glomerulosclerosis and Charcot-Marie-Tooth disease, highlighting the importance of actin regulation in specialized cell types such as podocytes and neurons. INF2-mediated actin remodeling has also been studied in relation to mitochondrial fission, cellular stress responses and maintenance of intracellular organization. These diverse functions connect INF2 to both fundamental cytoskeleton research and disease-associated cellular pathways.

INF2 Antibody applications include analysis of Inverted Formin 2 expression, localization and regulation in biological research samples using methods such as Western blot, immunohistochemistry, immunofluorescence and flow cytometry. Detection of INF2 helps researchers investigate actin dynamics, cytoskeletal remodeling, organelle regulation and cellular structural control mechanisms. NSJ Bioreagents provides INF2 Antibody / Actin Regulation Protein Antibody for researchers studying actin biology, intracellular organization and cell regulation pathways.

INF2 Antibody detects an actin-regulating formin protein involved in cytoskeletal remodeling, organelle dynamics and cellular structure regulation, making it a useful marker for research areas featured in our Cell Biology Antibodies page.

Application Notes

Optimal dilution of the INF2 Antibody / Actin Regulation Protein Antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids A7-Q674) was used as the immunogen for the INF2 antibody.

Storage

After reconstitution, the INF2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Inverted Formin 2 Antibody, Inverted Formin-2 Antibody, Formin Protein Antibody, Actin Polymerization Protein Antibody, FSGS5 Antibody, CMTDIE Antibody

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