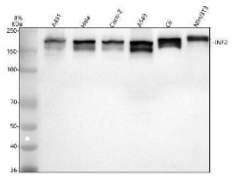
# Inverted Formin 2 Antibody / Formin Protein Antibody (FY13470)

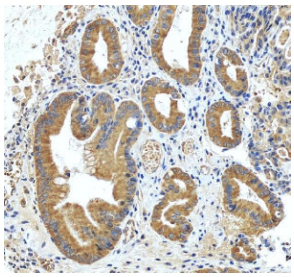
| Catalog No. | Formulation | Size |
|---|---|---|
| FY13470 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

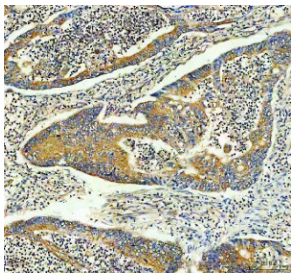
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer**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



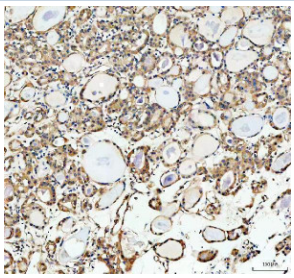
Inverted Formin 2 Antibody Human, Rat and Mouse WB. Western blot testing of human A431, HeLa, Caco-2 and A549 cell lysates, rat C6 cell lysate and mouse NIH/3T3 cell lysate with Inverted Formin 2 Antibody at 0.5 ug/ml. Lane 1: human A431; Lane 2: human HeLa; Lane 3: human Caco-2; Lane 4: human A549; Lane 5: rat C6; Lane 6: mouse NIH/3T3. Predicted molecular weight: ~136 kDa; the INF2 protein is routinely observed at approximately 170-180 kDa due to isoform variation, protein structure and migration characteristics during SDS-PAGE. Inverted Formin 2 Antibody / Formin Protein Antibody detects endogenous INF2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization and formin protein regulation pathways.



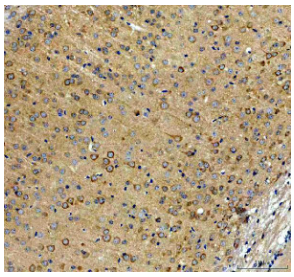
Inverted Formin 2 Antibody Human Stomach Cancer IHC. Immunohistochemistry staining of FFPE human stomach cancer tissue with Inverted Formin 2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2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



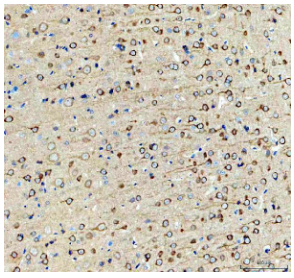
Inverted Formin 2 Antibody Human Colon Cancer IHC. Immunohistochemistry staining of FFPE human colon cancer tissue with Inverted Formin 2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody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



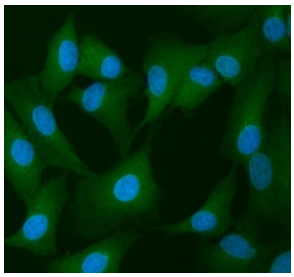
Inverted Formin 2 Antibody Human Thyroid Cancer IHC. Immunohistochemistry staining of FFPE human thyroid cancer tissue with Inverted Formin 2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2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



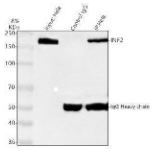
Inverted Formin 2 Antibody Mouse Brain IHC. Immunohistochemistry staining of FFPE mouse brain tissue with Inverted Formin 2 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-INF2 antibody overnight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



Inverted Formin 2 Antibody Rat Brain IHC. Immunohistochemistry staining of FFPE rat brain tissue with Inverted Formin 2 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. Inverted Formin 2 Antibody / Formin Protein Antibody demonstrates cytoplasmic staining consistent with INF2 expression and supports studies of actin cytoskeleton remodeling, neuronal cell biology and formin-mediated cellular regulation pathways.



Inverted Formin 2 Antibody A549 Cell IF. Immunofluorescent staining of human A549 cells with Inverted Formin 2 Antibody at 5 ug/ml. Enzyme antigen retrieval was performed for 15 minutes, followed by blocking with 10% goat serum. Cells were incubated with rabbit anti-INF2 antibody overnight at 4Â°C, followed by DyLight 488 conjugated goat anti-rabbit IgG secondary antibody (green). Nuclei were counterstained with DAPI (blue). Inverted Formin 2 Antibody / Formin Protein Antibody demonstrates cytoplasmic staining consistent with INF2 expression and supports studies of actin cytoskeleton remodeling, intracellular organization and formin-mediated cellular regulation pathways.



Inverted Formin 2 Antibody Human Cell IP. Immunoprecipitation of INF2 protein from 500 ug of human HeLa whole cell lysate using 2 ug of Inverted Formin 2 Antibody. Immunoprecipitated protein was analyzed by Western blot, with input lysate and rabbit IgG control samples included for comparison. INF2 was detected at approximately 180 kDa, above the predicted 136 kDa molecular weight due to isoform variation, protein structure and SDS-PAGE migration characteristics. Inverted Formin 2 Antibody / Formin Protein Antibody successfully enriches endogenous INF2 protein and supports studies of actin cytoskeleton remodeling, protein interactions and formin-mediated cellular regulation pathways.

## Description

Inverted Formin 2 Antibody / Formin Protein Antibody detects INF2, a member of the formin protein family involved in actin cytoskeleton remodeling, intracellular organization and regulation of cellular structure. Inverted Formin 2 contains conserved formin homology domains that allow it to control actin filament dynamics, influencing both filament assembly and disassembly. Unlike many other formin proteins that primarily stimulate actin polymerization, INF2 has the ability to promote rapid actin turnover, allowing cells to remodel cytoskeletal networks in response to changing biological requirements. This specialized activity makes INF2 an important protein for studies of actin regulation and cellular architecture.

Inverted Formin 2 contributes to multiple cellular processes that require coordinated control of the cytoskeleton. INF2-mediated actin remodeling is involved in organelle positioning, vesicle movement, endoplasmic reticulum organization and mitochondrial dynamics. By regulating interactions between the cytoskeleton and intracellular membranes, INF2 helps maintain proper cellular organization and structural adaptability. Inverted Formin 2 Antibody is used by researchers studying actin-associated pathways, cytoskeletal remodeling mechanisms and the relationship between cellular structure and function.

Research involving INF2 has demonstrated important connections between actin regulation and disease-related cellular processes. Mutations affecting INF2 have been associated with focal segmental glomerulosclerosis and Charcot-Marie-Tooth disease, highlighting the importance of cytoskeletal regulation in podocytes, neurons and other specialized cell types. INF2 is also studied for its role in mitochondrial fission and communication between organelles, where actin remodeling contributes to maintaining normal cellular physiology and stress responses.

Inverted Formin 2 Antibody applications include detection of INF2 expression, localization and regulation in biological samples. Analysis of this formin family protein supports research into actin dynamics, intracellular organization, cytoskeletal signaling and organelle regulation. NSJ Bioreagents provides Inverted Formin 2 Antibody / Formin Protein Antibody for researchers investigating cytoskeletal remodeling, cellular architecture and actin-dependent regulatory pathways.

Inverted Formin 2 Antibody detects the INF2 formin protein involved in actin remodeling, cytoskeletal organization and organelle dynamics; additional actin regulation research tools are available on our INF2 Antibody / Actin Regulation Protein Antibody page.

## Application Notes

Optimal dilution of the Inverted Formin 2 Antibody / Formin Protein Antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids V730-D1084) was used as the immunogen for the Inverted Formin 2 antibody.

## Storage

After reconstitution, the Inverted Formin 2 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

INF2 Antibody, Inverted Formin-2 Antibody, FSGS5 Antibody, CMTDIE Antibody, Actin Remodeling Protein Antibody, Formin Family Protein Antibody


Copyright © NSJ Bioreagents. All rights reserved.