


Product datasheet

Anti-INF2 antibody - N-terminal ab229479

[2 Images](#)

Overview

Product name	Anti-INF2 antibody - N-terminal
Description	Rabbit polyclonal to INF2 - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Recombinant fragment within Human INF2 (N terminal). The exact sequence is proprietary. Database link: Q27J81
Positive control	WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts. IP: HEK-293T whole cell extract.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab229479 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 136 kDa.
IP		1/100 - 1/500.

Target

Function

Severs actin filaments and accelerates their polymerization and depolymerization.

Tissue specificity

Widely expressed. In the kidney, expression is apparent in podocytes and some tubule cells.

Involvement in disease

Defects in INF2 are the cause of focal segmental glomerulosclerosis type 5 (FSGS5) [MIM:613237]. A renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation.

Sequence similarities

Belongs to the formin homology family.
Contains 1 FH2 (formin homology 2) domain.
Contains 1 GBD/FH3 (Rho GTPase-binding/formin homology 3) domain.
Contains 1 WH2 domain.

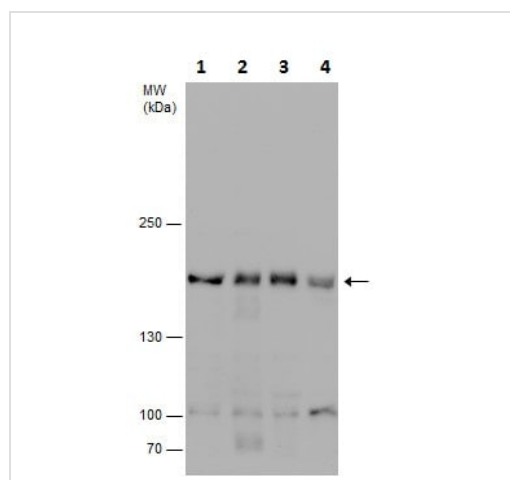
Domain

The WH2 domain acts as the DAD (diaphanous autoregulatory) domain and binds to actin monomers.
Regulated by autoinhibition due to intramolecular GBD-DAD binding.
The severing activity is dependent on covalent attachment of the FH2 domain to the C-terminus.

Cellular localization

Cytoplasm > perinuclear region.

Images



Western blot - Anti-INF2 antibody - N-terminal (ab229479)

All lanes : Anti-INF2 antibody - N-terminal (ab229479) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

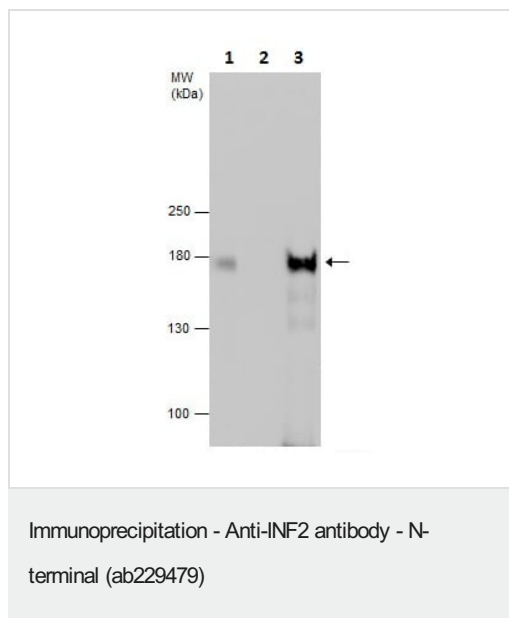
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

Predicted band size: 136 kDa

5% SDS-PAGE



INF2 was immunoprecipitated from HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract with 5 µg ab229479. Western blot was performed from the immunoprecipitate using ab229479.

Lane 1: HEK-293T whole cell extract (Input)

Lane 2: Control IgG IP in HEK-293T whole cell extract.

Lane 3: ab229479 IP in HEK-293T whole cell extract.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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