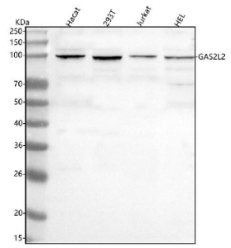
GAS2L2 Antibody / Growth arrest-specific protein 2-like 2 (FY12527)

Catalog No.	Formulation	Size
FY12527	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
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	Q8NHY3
Applications	Western Blot: 0.25-0.5ug/ml ELISA: 0.1-0.5ug/ml
Limitations	This GAS2L2 antibody is available for research use only.



Western blot analysis of GAS2L2 using anti-GAS2L2 antibody. Lane 1: human Hacat whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human HEL whole cell 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-GAS2L2 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 GAS2L2 at approximately 97 kDa. The expected molecular weight of GAS2L2 is ~97 kDa.

Description

GAS2L2 antibody detects Growth arrest-specific protein 2-like 2, a cytoskeletal-associated protein that links microtubules and actin filaments. GAS2L2 contributes to cell shape maintenance, mechanical stability, and tissue organization. The GAS2L2 antibody is used to study cytoskeleton interactions, cell polarity, and epithelial morphogenesis.

GAS2L2 is encoded by the GAS2L2 gene on human chromosome 17p13.1. The protein is approximately 97 kilodaltons and contains a calponin homology (CH) domain that binds actin and a GAS2-related (GAR) domain that associates with microtubules. This dual-binding capability enables GAS2L2 to coordinate actin-microtubule crosslinking, influencing cell architecture and mechanotransduction.

The GAS2L2 antibody reveals filamentous and junctional staining in epithelial and smooth muscle cells. GAS2L2 expression is enriched in respiratory and reproductive epithelia, where it stabilizes apical cell-cell contacts. Loss of GAS2L2 disrupts ciliogenesis and planar cell polarity, leading to impaired epithelial alignment and fluid transport. In fibroblasts and neurons, GAS2L2 contributes to microtubule organization and axonal guidance.

Beyond structural support, GAS2L2 regulates cell migration and wound healing by modulating actin polymerization dynamics. It interacts with signaling proteins that respond to mechanical stress, suggesting a role in tissue homeostasis and mechanosensitive pathways. Mutations or altered expression of GAS2L2 are associated with ciliary dysfunction and airway remodeling disorders.

Because of its crosslinking function, GAS2L2 serves as a molecular bridge between cytoskeletal networks, coordinating force generation and cellular tension. NSJ Bioreagents provides a validated GAS2L2 antibody, supporting research into epithelial organization, mechanical signaling, and cell polarity regulation.

Application Notes

Optimal dilution of the GAS2L2 antibody should be determined by the researcher.

Immunogen

E.coli-derived human GAS2L2 recombinant protein (Position: R43-R829) was used as the immunogen for the GAS2L2 antibody.

Storage

After reconstitution, the GAS2L2 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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