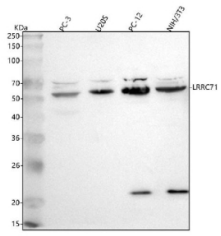
LRRC71 Antibody / Leucine-rich repeat-containing protein 71 (FY12488)

Catalog No.	Formulation	Size
FY12488	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	Q8N4P6
Applications	Western Blot : 0.25-0.5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This LRRC71 antibody is available for research use only.



Western blot analysis of C1orf92/LRRC71 using anti-LRRC71 antibody. Lane 1: human PC-3 whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: rat PC-12 whole cell lysates, Lane 4: mouse NIH/3T3 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-LRRC71 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. LRRC71 (~62 kDa predicted) was detected as a major band at ~62 kDa, with a weaker band at ~70 kDa consistent with differential glycosylation or isoform expression. Additional lower bands (~22 kDa) observed in rodent tissues likely represent truncated or species-specific LRRC71 forms, as reported for related LRR-family proteins.

Description

LRRC71 antibody detects Leucine-rich repeat-containing protein 71, a cytoplasmic and possibly nuclear protein

characterized by multiple leucine-rich repeat motifs involved in protein-protein interactions. While the precise biological function of LRRC71 is still being elucidated, members of the leucine-rich repeat (LRR) family are commonly associated with cellular signaling, adhesion, and developmental regulation. The LRRC71 antibody is used in studies examining protein interaction networks, signal transduction pathways, and the potential roles of LRR proteins in neuronal and reproductive biology.

LRRC71 is encoded by the LRRC71 gene located on human chromosome 8q24.3. The protein contains tandem LRR motifs forming a horseshoe-shaped structure that facilitates binding to various partners, including receptors, kinases, and cytoskeletal proteins. Bioinformatic analyses suggest roles in cell differentiation and communication, possibly through modulation of receptor signaling. Expression profiling has revealed LRRC71 mRNA in multiple tissues, with enrichment in testis, brain, and epithelial organs, indicating possible participation in spermatogenesis and neurodevelopment.

Using the LRRC71 antibody, researchers can detect a band between 60-70 kilodaltons on western blot, corresponding to the predicted molecular weight of the protein. Immunostaining studies show cytoplasmic and perinuclear localization, consistent with a signaling or adaptor function. Although direct physiological functions remain under active investigation, related LRR family members are known to mediate receptor clustering and intracellular scaffolding, suggesting a conserved molecular role for LRRC71 in signal integration and cell organization.

Emerging data suggest LRRC71 may interact with intracellular components regulating calcium signaling or vesicular trafficking. Its predicted structural features imply involvement in membrane-proximal signaling complexes that respond to developmental or stress cues. Further investigation may also link LRRC71 to fertility regulation, as several LRR proteins participate in germ cell communication and acrosome formation. NSJ Bioreagents provides a validated LRRC71 antibody optimized for western blot, immunofluorescence, and immunohistochemistry applications, supporting research into LRR protein structure, signaling, and cellular differentiation.

Application Notes

Optimal dilution of the LRRC71 antibody should be determined by the researcher.

Immunogen

E.coli-derived human C1orf92/LRRC71 recombinant protein (Position: K35-D543) was used as the immunogen for the LRRC71 antibody.

Storage

After reconstitution, the LRRC71 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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