**BACKGROUND**

The leucine-rich repeat (LRR) is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRRs contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. NLRC5, also known as NOD4 or NOD27, is a 1,866 amino acid cytoplasmic protein that contains one NACHT domain and 26 LRRs. NLRC5 is thought to function as a regulator of the NFκB and type I/II interferon signaling pathways. Other roles of NLRC5 include control of innate immunity and antiviral defense. NLRC5 is expressed in brain, lung, thymus, heart, spleen and prostate and exists as six alternatively spliced isoforms. The gene encoding NLRC5 maps to human chromosome 16q13.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NLRC5 (human) mapping to 16q13; Nlrc5 (mouse) mapping to 8 C4.

**SOURCE**

NLRC5 (B-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 41-64 near the N-terminus of NLRC5 of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

NLRC5 (B-10) is recommended for detection of NLRC5 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NLRC5 siRNA (h): sc-93466, NLRC5 shRNA Plasmid (h): sc-93466-SH and NLRC5 shRNA (h) Lentiviral Particles: sc-93466-V.

Molecular Weight of NLRC5 isoforms: 212/154 kDa.

Positive Controls: I-11.15 whole cell lysate: sc-364370, SP2/0 whole cell lysate: sc-364795 or TK-1 whole cell lysate: sc-364798.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

![NLRC5 Western blot analysis](image1)

**SELECT PRODUCT citations**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.