BACKGROUND

Cryopyrin interacts selectively with apoptosis-associated speck-like protein containing a CARD domain (ASC). This complex may function as an upstream activator of NFκB signaling and caspase-1 activation. The complex also inhibits TNFα-induced activation and nuclear translocation of RelA/NFκB p65. Mutations in Cryopyrin and Pyrin proteins are responsible for several autoinflammatory disorders in humans, including familial cold autoinflammatory syndrome (FCAS), Muckle-Wells syndrome (MWS), and chronic infantile neurologic cutaneous and articular syndrome (CINCA).

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: CIAS1 (human) mapping to 1q44; Cias1 (mouse) mapping to 11 B1.3.

SOURCE

Cryopyrin (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Cryopyrin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34411 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Cryopyrin (N-14) is recommended for detection of Cryopyrin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Cryopyrin siRNA (h): sc-45469, Cryopyrin siRNA (m): sc-45470, Cryopyrin shRNA Plasmid (h): sc-45469-SH, Cryopyrin shRNA Plasmid (m): sc-45470-SH, Cryopyrin shRNA (h) Lentiviral Particles: sc-45469-V and Cryopyrin shRNA (m) Lentiviral Particles: sc-45470-V.

Molecular Weight of Cryopyrin: 106 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS


RESEARCH USE

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

Try Cryopyrin (6F12): sc-134306, our highly recommended monoclonal alternative to Cryopyrin (N-12).