

# Cryopyrin (D-12): sc-34408

## BACKGROUND

Cryopyrin interacts selectively with apoptosis-associated specklike protein containing a CARD domain (ASC). This complex may function as an upstream activator of NF $\kappa$ B signaling and caspase-1 activation. The complex also inhibits TNF $\alpha$  induced activation and nuclear translocation of RelA/NF $\kappa$ B 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 neurological cutaneous and articular syndrome (CINCA).

## REFERENCES

1. Dode, C., et al. 2002. New mutations of CIAS1 that are responsible for Muckle-Wells syndrome and familial cold urticaria: a novel mutation underlies both syndromes. *Am. J. Hum. Genet.* 70: 1498-1506.
2. Feldmann, J., et al. 2002. Chronic infantile neurological cutaneous and articular syndrome is caused by mutations in CIAS1, a gene highly expressed in polymorphonuclear cells and chondrocytes. *Am. J. Hum. Genet.* 71: 198-203.
3. Rosengren, S. 2005. Expression and regulation of Cryopyrin and related proteins in rheumatoid arthritis synovium. *Ann. Rheum. Dis.* 64: 708-714.
4. Bihl, T., et al. 2005. The T348M mutated form of Cryopyrin is associated with defective lipopolysaccharide-induced interleukin 10 production in CINCA syndrome. *Ann. Rheum. Dis.* 64: 1380-1381.
5. Yu, J.W., et al. 2005. Cryopyrin and Pyrin activate caspase-1, but not NF $\kappa$ B, via ASC oligomerization. *Cell Death Differ.* Jul 22.

## CHROMOSOMAL LOCATION

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

## SOURCE

Cryopyrin (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Cryopyrin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-34408 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4 $^{\circ}$  C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## APPLICATIONS

Cryopyrin (D-12) 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 Cortactin: 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## RESEARCH USE

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


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