

# Akirin2 (Y-13): sc-167068

## BACKGROUND

Akirin2, also known as C6orf166, is a 203 amino acid nuclear protein belonging to the Akirin family. Widely expressed, with highest levels in peripheral blood leukocytes, Akirin2 is a downstream effector of the TNF, IL-1 and TLR signaling pathways which lead to the production of IL-6. Akirin2 also interacts with 14-3-3 to form a complex which represses the transcription of MKP-1. The gene that encodes Akirin2 maps to human chromosome 6. Chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: AKIRIN2 (human) mapping to 6q15; Akirin2 (mouse) mapping to 4 A5.

## SOURCE

Akirin2 (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Akirin2 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-167068 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Akirin2 (Y-13) is recommended for detection of Akirin2 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); non cross-reactive with other C6orf family members.

Akirin2 (Y-13) is also recommended for detection of Akirin2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Akirin2 siRNA (h): sc-95471, Akirin2 siRNA (m): sc-140980, Akirin2 shRNA Plasmid (h): sc-95471-SH, Akirin2 shRNA Plasmid (m): sc-140980-SH, Akirin2 shRNA (h) Lentiviral Particles: sc-95471-V and Akirin2 shRNA (m) Lentiviral Particles: sc-140980-V.

Molecular Weight of Akirin2: 22 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.