

# CIDE-B (Y-13): sc-51476

## BACKGROUND

The DNA fragmentation factor (DFF) is involved in the caspase-3 apoptotic pathway. DFF is composed of two subunits: DFF-45, also designated ICAD (inhibitor of CAD); and CPAN (caspase-activated nuclease), also designated CAD (caspase-activated deoxyribonuclease). CPAN is a DNase that is responsible for DNA degradation during apoptosis. CPAN is inhibited by DFF-45. Caspase-3 acts to dissociate CPAN from DFF-45, allowing CPAN to enter the nucleus and degrade DNA. CIDE-A and CIDE-B have been identified as proteins that share homology with the N-terminal region of DFF-45. Like CPAN, CIDE-A and CIDE-B promote cell death and DNA fragmentation and are inhibited by DFF-45.

## CHROMOSOMAL LOCATION

Genetic locus: CIDEB (human) mapping to 14q12; Cideb (mouse) mapping to 14 C3.

## SOURCE

CIDE-B (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CIDE-B 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-51476 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

CIDE-B (Y-13) is recommended for detection of CIDE-B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Suitable for use as control antibody for CIDE-B siRNA (h): sc-37441, CIDE-B siRNA (m): sc-37442, CIDE-B shRNA Plasmid (h): sc-37441-SH, CIDE-B shRNA Plasmid (m): sc-37442-SH, CIDE-B shRNA (h) Lentiviral Particles: sc-37441-V and CIDE-B shRNA (m) Lentiviral Particles: sc-37442-V.

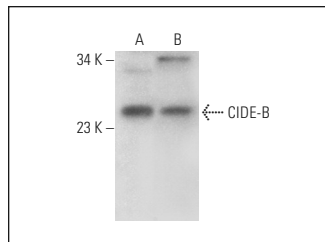
Molecular Weight of CIDE-B: 26 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, RAW 264.7 whole cell lysate: sc-2211 or mouse liver extract: sc-2256.

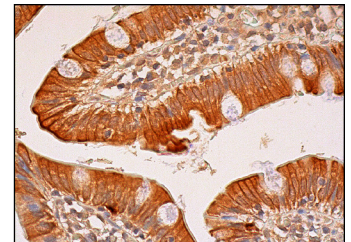
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



CIDE-B (Y-13): sc-51476. Western blot analysis of CIDE-B expression in KNRK (A) and RAW 264.7 (B) whole cell lysates.



CIDE-B (Y-13): sc-51476. Immunoperoxidase staining of formalin fixed, paraffin-embedded human small intestine tissue showing cytoplasmic and membrane staining of glandular cells.

## 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.

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Satisfaction  
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Try **CIDE-B (5X): sc-101244**, our highly recommended monoclonal alternative to CIDE-B (Y-13).