

# WWC2 (E-17): sc-244664

## BACKGROUND

WWC2 (WW and C2 domain containing 2), also known as BOMB (BH-3-only member B), is a 1,192 amino acid protein belonging to the WWC family. Containing one C2 domain and two WW domains, WWC2 exists as seven alternatively spliced isoforms and is encoded by a gene located on human chromosome 4q35.1. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: WWC2 (human) mapping to 4q35.1; Wwc2 (mouse) mapping to 8 B1.1.

## SOURCE

WWC2 (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of WWC2 of human origin.

## STORAGE

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

## 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-244664 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

WWC2 (E-17) is recommended for detection of WWC2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with WWC3.

WWC2 (E-17) is also recommended for detection of WWC2 in additional species, including equine and canine.

Suitable for use as control antibody for WWC2 siRNA (h): sc-89074, WWC2 siRNA (m): sc-155367, WWC2 shRNA Plasmid (h): sc-89074-SH, WWC2 shRNA Plasmid (m): sc-155367-SH, WWC2 shRNA (h) Lentiviral Particles: sc-89074-V and WWC2 shRNA (m) Lentiviral Particles: sc-155367-V.

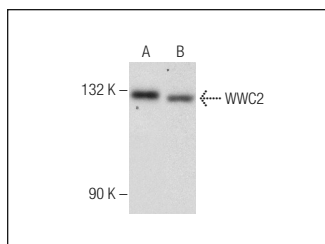
Molecular Weight of WWC2: 134 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

## 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.

## DATA



WWC2 (E-17): sc-244664. Western blot analysis of WWC2 expression in HeLa (A) and K-562 (B) whole cell lysates.

## RESEARCH USE

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