

# C35 (C-16): sc-69346

## BACKGROUND

C35, also known as XTP4 (HBV X-transactivated gene 4) and protein C17orf37, is a 115 amino acid cytoplasmic protein that is a member of the SelWTH protein family. SelWTH proteins contain a thioredoxin-like fold and a conserved CxxC or CxxU motif, suggesting that they may play functional role in redox reactions. Although found at trace levels in normal breast ductal epithelium and testis, expression of C35 is robust in infiltrating ductal carcinomas of the breast, lobular carcinoma, as well as distant metastases of breast cancer such as liver, lung and skin. The prevalence and abundance of C35 overexpression in tumors suggest that it may be an appropriate bio-marker for diagnosis and a potential target for therapeutic intervention.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: C17orf37 (human) mapping to 17q12; 1810046J19Rik (mouse) mapping to 11 D.

## SOURCE

C35 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C35 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-69346 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

C35 (C-16) is recommended for detection of C35 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).

C35 (C-16) is also recommended for detection of C35 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C35 siRNA (h): sc-72767, C35 siRNA (m): sc-72768, C35 shRNA Plasmid (h): sc-72767-SH, C35 shRNA Plasmid (m): sc-72768-SH, C35 shRNA (h) Lentiviral Particles: sc-72767-V and C35 shRNA (m) Lentiviral Particles: sc-72768-V.

Molecular Weight of C35: 12 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.

## 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.