

# IGF2AS (C-12): sc-161725

## BACKGROUND

The insulin gene family, comprised of insulin, Relaxin and insulin-like growth factors I and II (IGF-I and IGF-II), encodes a group of structurally related polypeptides whose biological functions have diverged. The IGFs, including IGF-I and IGF-II, are critical regulators of cell proliferation and most of the growth promoting properties of both ligands are mediated by the IGF-I receptor, designated IGF-IR. IGF-I expression is regulated by growth hormone and mediates postnatal growth, while IGF-II is induced by placental lactogen during prenatal development. IGF2AS (insulin-like growth factor 2 antisense), also known as PEG8, is a 168 amino acid protein that is expressed at high levels in fetal kidney and is encoded by a gene which is anti-sense to the gene encoding human IGF-II. Defects in the gene encoding IGF2AS are associated with ovarian, breast and Wilms tumor tissues, suggesting a possible role for IGF2AS in carcinogenesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: IGF2AS (human) mapping to 11p15.5.

## SOURCE

IGF2AS (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IGF2AS 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-161725 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

IGF2AS (C-12) is recommended for detection of IGF2AS of 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 IGF2AS siRNA (h): sc-96884, IGF2AS shRNA Plasmid (h): sc-96884-SH and IGF2AS shRNA (h) Lentiviral Particles: sc-96884-V.

Molecular Weight of IGF2AS: 18 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.

## PROTOCOLS

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