

# DEPDC4 (N-16): sc-246440

## BACKGROUND

DEPDC4 (DEP domain-containing protein 4), is a 294 amino acid protein containing one DEP domain. DEPDC4 exists as two isoforms produced by alternative splicing events and is encoded by a gene that maps to human chromosome 12q23.1. Encoding over 1,100 genes within 132 million base pairs, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12 including hypochondrogenesis, achondrogenesis, Noonan syndrome, Kniest dysplasia and trisomy 12p. Chromosome 12 is also home to a homeobox gene cluster, which encodes crucial transcription factors for morphogenesis, and the natural killer complex gene cluster encoding C-type lectin proteins, which mediate the NK cell response to MHC I interaction.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DEPDC4 (human) mapping to 12q23.1.

## SOURCE

DEPDC4 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DEPDC4 of human origin.

## RESEARCH USE

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

## 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-246440 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DEPDC4 (N-16) is recommended for detection of DEPDC4 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); non cross-reactive with other DEPDC family members.

Suitable for use as control antibody for DEPDC4 siRNA (h): sc-96039, DEPDC4 shRNA Plasmid (h): sc-96039-SH and DEPDC4 shRNA (h) Lentiviral Particles: sc-96039-V.

Molecular Weight of DEPDC4 isoforms 1/2: 34/7 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.

## PROTOCOLS

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