

# Dim2 (Q-15): sc-160287

## BACKGROUND

The Dim protein family consists of two classes, Dim1 and Dim2, which share a common thioredoxin-like fold, but most likely function in different biological pathways. Dim2, also known as TXNL4B (thioredoxin-like 4B), or DLP, is a 149 amino acid nuclear protein that exists as a homodimer and plays an essential role in pre-mRNA splicing. Evolutionarily related and sharing 38% sequence identity with Dim1, Dim2 is required for S/G<sub>2</sub> transition during the cell cycle and is able to bind the PRP6 (U5-102K) subunit of the spliceosome. The gene encoding Dim2 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The rare disorder Rubinstein-Taybi syndrome is associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TXNL4B (human) mapping to 16q22.2; Txnl4b (mouse) mapping to 8 D3.

## SOURCE

Dim2 (Q-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Dim2 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-160287 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Dim2 (Q-15) is recommended for detection of Dim2 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); non cross-reactive with Dim1.

Dim2 (Q-15) is also recommended for detection of Dim2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dim2 siRNA (h): sc-93322, Dim2 siRNA (m): sc-143040, Dim2 shRNA Plasmid (h): sc-93322-SH, Dim2 shRNA Plasmid (m): sc-143040-SH, Dim2 shRNA (h) Lentiviral Particles: sc-93322-V and Dim2 shRNA (m) Lentiviral Particles: sc-143040-V.

Molecular Weight of Dim2: 17 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.

## 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.