

NOPAR (N-17): sc-324173

BACKGROUND

NOPAR, also known as MED12L (mediator of RNA polymerase II transcription subunit 12-like protein), TNRC11L (trinucleotide repeat-containing gene 11 protein-like), TRALP (thyroid hormone receptor-associated-like protein) or TRALPUSH, is a 2,145 amino acid nuclear protein that belongs to the mediator complex subunit 12 family. NOPAR exists as four alternatively spliced isoforms and may be a component of the mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. The complex functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Recruited to promoters by direct interactions with regulatory proteins, the mediator complex serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and general transcription factors. The gene that encodes NOPAR maps to human chromosome 3q25.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MED12L (human) mapping to 3q25.1; Med12l (mouse) mapping to 3 D.

SOURCE

NOPAR (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NOPAR 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-324173 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NOPAR (N-17) is recommended for detection of NOPAR 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 other MED family members.

NOPAR (N-17) is also recommended for detection of NOPAR in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NOPAR siRNA (h): sc-106310, NOPAR shRNA Plasmid (h): sc-106310-SH and NOPAR shRNA (h) Lentiviral Particles: sc-106310-V.

Molecular Weight of NOPAR isoforms:240/81/85/240 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.