

# Retinal RX2 (A-17): sc-102080

## BACKGROUND

Retinal RX2, also known as RAX2, QRX, RAXL1, ARMD6 or CORD11, is a 184 amino acid nuclear protein that contains one homeobox DNA-binding domain. Localized to the nucleus and preferentially expressed in the inner and outer nuclear layers of the retina, Retinal RX2 is thought to play a role in eye development, possibly modulating the expression of photoreceptor-specific genes. Via its homeobox domain, Retinal RX2 transactivates elements of the rhodopsin promoter, thereby modulating rhodopsin expression within the eye. Defects in the gene encoding Retinal RX2 are the cause of age-related macular degeneration type 6 (ARMD6) and cone-rod dystrophy type 11 (CORD11). While both ARMD6 and CORD11 result in impaired vision, ARMD6 is associated with accumulated protein and fat beneath the retinal pigment epithelium and CORD11 is associated with rod and cone photoreceptor degeneration.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RAX2 (human) mapping to 19p13.3.

## 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.

## SOURCE

Retinal RX2 (A-17) is a purified rabbit polyclonal antibody raised against Retinal RX2 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

Retinal RX2 (A-17) is recommended for detection of Retinal RX2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Retinal RX2 siRNA (h): sc-97874, Retinal RX2 shRNA Plasmid (h): sc-97874-SH and Retinal RX2 shRNA (h) Lentiviral Particles: sc-97874-V.

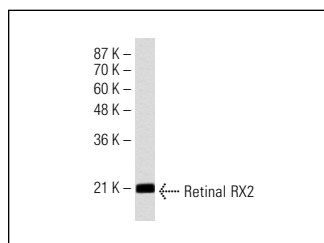
Molecular Weight of Retinal RX2: 20 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



Retinal RX2 (A-17): sc-102080. Western blot analysis of Retinal RX2 expression in Jurkat whole cell lysate.

## RESEARCH USE

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