

# EGFL11 (N-13): sc-167732

## BACKGROUND

Epidermal growth factor (EGF) repeat-containing proteins constitute an expanding family of proteins that are involved in several cellular activities, such as blood coagulation, fibrinolysis, cell adhesion, and neural and vertebrate development. In addition, this family encodes proteins that govern cellular proliferative responses. EGFL11 (epidermal growth factor-like protein 11), also known as EGF-like protein 11, EYS (eyes shut homolog (*Drosophila*)) or protein spacemaker homolog, is a 3,165 amino acid secreted protein belonging to the EYS family. Containing 27 EGF-like domains and 5 laminin G-like domains, EGFL11 is required to maintain photoreceptor cell integrity. EGFL11 localizes to the photoreceptor cell layer and is expressed in retina. Defects to EGFL11 have been linked to retinitis pigmentosa type 25 (RP25), a disorder characterized by night blindness and deteriorated visual acuity. EGFL11 exists as three alternatively spliced isoforms and is encoded by a gene mapping to human chromosome 6q12.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: EYS (human) mapping to 6q12.

## SOURCE

EGFL11 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EGFL11 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-167732 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

EGFL11 (N-13) is recommended for detection of EGFL11 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 EGFL family members.

Suitable for use as control antibody for EGFL11 siRNA (h): sc-95498, EGFL11 shRNA Plasmid (h): sc-95498-SH and EGFL11 shRNA (h) Lentiviral Particles: sc-95498-V.

Molecular Weight of EGFL11 isoforms 1/2/3: 351/348/67 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](http://www.scbt.com) or our catalog for detailed protocols and support products.