

# LPRP (P-17): sc-243319

## BACKGROUND

LPRP (lacrimal proline-rich protein), also known as PRR4 (proline rich 4), PROL4 or nasopharyngeal carcinoma-associated proline-rich protein 4, is a 134 amino acid secreted protein that is highly expressed in acinar cells of the lacrimal gland, but not intralobular ducts. LPRP is also found in parotid, sublingual and submandibular glands. Thought to play a role in protection of the eye via regulation of microflora, LPRP is a putative marker for lacrimal gland acinar cell function. The gene encoding LPRP maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PRR4 (human) mapping to 12p13.2.

## RESEARCH USE

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

## SOURCE

LPRP (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LPRP 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-243319 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

LPRP (P-17) is recommended for detection of LPRP 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).

Suitable for use as control antibody for LPRP siRNA (h): sc-95971, LPRP shRNA Plasmid (h): sc-95971-SH and LPRP shRNA (h) Lentiviral Particles: sc-95971-V.

Molecular Weight of LPRP: 15 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.