

# Lipocalin-13 (G-15): sc-164876

## BACKGROUND

The Lipocalin family is composed of structurally conserved hydrophobic ligand-binding proteins which are represented in all major taxonomic groups from prokaryotes to primates. Members of the Lipocalin family are characterized by several common molecular-recognition properties: the ability to bind a range of small hydrophobic molecules, binding to specific cell-surface receptors and the formation of complexes with soluble macromolecules. Lipocalin-13 (Lcn13), is a 176 amino acid secreted protein that is expressed specifically in epididymis where it acts as a retinoid carrier protein and is thought to be involved in male fertility. A member of the Lipocalin family and calycin superfamily, Lipocalin-13 is encoded by a gene that maps to murine chromosome 2 A3.

## REFERENCES

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2. Flower, D.R. 1996. The lipocalin protein family: structure and function. *Biochem. J.* 318: 1-14.
3. Salier, J.P. 2000. Chromosomal location, exon/intron organization and evolution of lipocalin genes. *Biochim. Biophys. Acta* 1482: 25-34.
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5. Suzuki, K., et al. 2004. Molecular evolution of epididymal lipocalin genes localized on mouse chromosome 2. *Gene* 339: 49-59.
6. Grzyb, J., et al. 2006. Lipocalins-a family portrait. *J. Plant Physiol.* 163: 895-915.
7. Suzuki, K., et al. 2007. Epididymis-specific lipocalin promoters. *Asian J. Androl.* 9: 515-521.
8. Cho, K.W., et al. 2011. Lipocalin-13 regulates glucose metabolism by both Insulin-dependent and Insulin-independent mechanisms. *Mol. Cell. Biol.* 31: 450-457.

## CHROMOSOMAL LOCATION

Genetic locus: Lcn13 (mouse) mapping to 2 A3.

## SOURCE

Lipocalin-13 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Lipocalin-13 of mouse 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-164876 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

Lipocalin-13 (G-15) is recommended for detection of Lipocalin-13 of mouse and rat 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 Lipocalin family members.

Suitable for use as control antibody for Lipocalin-13 siRNA (m): sc-146747, Lipocalin-13 shRNA Plasmid (m): sc-146747-SH and Lipocalin-13 shRNA (m) Lentiviral Particles: sc-146747-V.

Molecular Weight of Lipocalin-13: 20 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.