Lipocalin-8 (T-14): sc-107240



The Power to Question

BACKGROUND

The lipocalin family is composed of structurally conserved hydrophobic ligand-binding proteins and is 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-8, also known as LCN8, is a 175 amino acid protein that is predominantly expressed in epididymis, where it is thought to regulate epididymis-specific gene expression. Belonging to the calycin superfamily, Lipocalin-8 may play a role in sperm maturation. The gene encoding Lipocalin-8 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

REFERENCES

- 1. Flower, D.R. 1995. Multiple molecular recognition properties of the lipocalin protein family. J. Mol. Recognit. 8: 185-195.
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- 3. Suzuki, K., et al. 2004. Molecular evolution of epididymal lipocalin genes localized on mouse chromosome 2. Gene 339: 49-59.
- Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. Nature 429: 369-374.
- 5. Grzyb, J., et al. 2006. Lipocalins-a family portrait. J. Plant Physiol. 163: 895-915
- Suzuki, K., et al. 2007. Epididymis-specific lipocalin promoters. Asian J. Androl. 9: 515-521.

CHROMOSOMAL LOCATION

Genetic locus: Lcn8 (mouse) mapping to 2 A3.

SOURCE

Lipocalin-8 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Lipocalin-8 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-107240 P, (100 μ g 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.

PROTOCOLS

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

APPLICATIONS

Lipocalin-8 (T-14) is recommended for detection of Lipocalin-8 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-8 siRNA (m): sc-146752, Lipocalin-8 shRNA Plasmid (m): sc-146752-SH and Lipocalin-8 shRNA (m) Lentiviral Particles: sc-146752-V.

Molecular Weight of Lipocalin-8: 19 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) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

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