

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Lipocalin-13 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Lipocalin-13 Ala19-Asp176 Accession # Q8K1H9
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

LCN-13 (Lipocalin 13; also Odorant-binding protein 2a) is a secreted, 26-28 kDa member of the LCN family, calycin superfamily of molecules. Its name is derived from Greek, and denotes the fact that lipocalins are known to be "fat-wrapping", or fat binding proteins that interact with small lipophilic molecules within a central cavity. LCN-13 is expressed by hepatocytes and smooth muscle cells. It is known to have antidiabetogenic effects, including the suppression of hepatic glucose production, the uptake of circulating glucose by adipocytes, and the induction of fatty acid oxidation by liver, possibly by stimulating CPT1α production. Mouse LCN-13 is synthesized as a 176 amino acid (aa) precursor that contains a 19 aa signal sequence and a 157 aa mature region. Although no splice forms have been reported for LCN-13 to date, a smaller, presumably proteolytically processed 23-26 kDa isoform has been noted on SDS-PAGE. Mature mouse LCN-13 shares 69% and 39% aa sequence identity with rat LCN-13 and human odorant-binding protein 2b, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.