

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FGF-15 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant human (rh) FGF-19 is observed and less than 5% cross-reactivity with rhFGF-22 and rhFGF-23 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse FGF-15 Ser24-Lys218 Accession # O35622
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Immunohistochemistry 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

FGF-15 (Fibroblast growth factor 15) is a 25 kDa, secreted, nonglycosylated polypeptide that is a member of the FGF-15/21/23 subfamily, FGF family of growth factors. It is synthesized by ileal epithelium, colonic myofibroblasts, and select areas of the developing brain. FGF-15 acts on hepatocytes and reduces CYP7A1 levels, thus blocking bile acid production. It also promotes colonic epithelial migration, and in the embryonic brain, inhibits over-production of neuronal precursors. FGF-15 is synthesized as a 218 amino acid (aa) precursor that contains a 25 aa signal sequence and a 182 aa mature region (aa 26-218; 23 kDa predicted MW). Mature FGF-15 contains a characteristic 3-dimensional β -trefoil structure, plus a unique Cys pattern that contributes to stability. There are two potential splice forms. One shows a 23 aa substitution for aa 120-218, while a second shows a 41 aa substitution for aa 120-218. Over aa 23-200, mouse FGF-15 shares 96% aa identity with rat FGF-15. Although mouse FGF-15 is considered the ortholog to human FGF-19, the two molecules share only 54% aa identity over aa 23-200, and are produced by different cell types (intestinal epithelium in mouse, hepatocytes in human).

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.