Mouse FGF-15 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6755V
100 µg

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	*E. coli*-derived recombinant mouse FGF-15 Ser24-Lys218 Accession # O35622
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.

DATA

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

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