Human FGF-4 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF235T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FGF-4 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human (rh) FGF-6 is observed and less than 2% cross-reactivity with bovine FGF acidic, bovine FGF basic, rhFG
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FGF-4 Ala31-Leu206 Accession # P08620
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
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-4, the product of a developmentally regulated gene (*hst*-1), is a member of the FGF family that is efficiently secreted. The gene for FGF-4 (also known as FGFK or K-FGF for Kaposi sarcoma-associated FGF) was initially discovered as a transforming gene by the NIH-3T3 focus formation assay using DNA derived from human tumors (including stomach and colon cancers, hepatocellular carcinomas, and Kaposi's sarcomas). FGF-4 does not seem to be expressed in normal adult tissues. However, expression of the gene is spatially and temporally regulated during embryonic development. The murine homologue of human FGF-4 has been cloned and shown to be 82% homologous to the human protein at the amino acid sequence level. Human FGF-4 has been shown to exhibit cross species activity.

In vitro, FGF-4 is mitogenic for fibroblasts and endothelial cells. FGF-4 has been shown to be a potent angiogenesis promoter *in vivo*. FGF-4 has potent transforming potential apparently through an autocrine mechanism of action. FGF-4 plays a key role in limb development and has been identified as the molecular mediator of the activities of the apical ectodermal ridge that is required for directing the outgrowth and patterning of vertebrate limbs.

PRODUCT SPECIFIC NOTICES

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