

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Fer in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 690318
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Fer Asn93-Ala302 Accession # P16591
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

FER [feline encephalitis virus (FES)-related kinase], also called Tyk3, is a widely expressed 822 amino acid (aa), 94 kDa intracellular non-receptor tyrosine kinase of the FES/FPS family. Human FER contains an FCH (microtubule/cytoskeleton interaction) domain (aa 1-58), a coiled coil oligomerization region, an SH2 domain (aa 460-550) and a kinase domain (aa 563-816). FER is found both in the cytoplasm and the nucleus, and interacts with several transmembrane receptors, cytosolic proteins, and nuclear chromatin. Through its interactions and kinase activity, Tyk3/FER influences synapse formation, cytoskeletal rearrangement, cell survival and cell cycle progression. Within the region used as an immunogen, human Tyk3/FER shares 97% aa sequence identity with mouse Tyk3/FER. Potential human Tyk3/FER isoforms truncated at aa 308 and 478 have been described.

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.