

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Tissue α -L-Fucosidase/FUCA1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 810607
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Tissue α -L-Fucosidase/FUCA1 Gln32-Lys466 Accession # P04066
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

Fucosylated glycoconjugates play numerous roles in biological processes, such as development, apoptosis and the immune responses, and are involved in the pathology of inflammation, cancer and cystic fibrosis (1, 2, 3, 4). Tissue α -L-Fucosidase, also known as FUCA1, is a lysosomal enzyme responsible for hydrolyzing α -L-fucose moieties from glycolipids and oligosaccharides (5). The mature enzyme in the liver has a molecular weight of 200 kDa and exists in the native state as a tetramer (6). Defects in FUCA1 are the cause of fucosidosis (7, 8, 9), an autosomal recessive lysosomal storage disease characterized by the accumulation of fucose-containing glycolipids and glycoproteins in various tissues. Serum α -L-fucosidase has been identified as a useful marker for oral cancer (10).

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.