

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 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.

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).

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