

Mouse GDP-fucose protein O-fucosyltransferase 2 (POFUT2) ELISA Kit



Catalog No: #EK11451

Orders: order@signalwayantibody.com

Package Size: #EK11451-1 48T #EK11451-2 96T

Support: tech@signalwayantibody.com

Description

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|--------------------|--|
| Product Name | Mouse GDP-fucose protein O-fucosyltransferase 2 (POFUT2) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (Mus musculus) |
| Other Names | C21orf80; FUT13; |
| Accession No. | Q8VHI3 |
| Uniprot | Q8VHI3 |
| GeneID | 80294; |
| Storage | <p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p> |

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate POFUT2 in samples. An antibody specific for POFUT2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOFUT2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POFUT2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of POFUT2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**POFUT2 is an enzyme responsible for adding fucose sugars in O linkage to serine or threonine residues in Thrombospondin repeats. The protein is an inverting glycosyltransferase, which means that the enzyme uses GDP-β-L-fucose as a donor substrate and transfers the fucose in O linkage to the protein producing fucose-α-O-serine/threonine. Almost all glycosyltransferases reside in the Golgi apparatus. However, POFUT2 as well as the related enzyme POFUT1 have recently been shown to reside in the endoplasmic reticulum.The deduced protein contains 428 amino acids. RT-PCR ELISA detected moderate expression in all adult and fetal tissues and specific brain regions examined. Crystal structures of POFUT2 reveal a variation of the classical GT-B fold and identify sugar donor and TSR acceptor binding sites.

Note: This product is for in vitro research use only