

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Protein O-Glucosyltransferase 1/POGLUT in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 737512
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Protein O-Glucosyltransferase 1/POGLUT Arg24-Leu388 Accession # Q8NBL1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Protein O-Glucosyltransferase1 (POGLUT1) is a homologue of Rumi from Drosophila, an endoplasmic reticulum (ER)-retaining glucosyltransferase, that adds glucose to serine residues within the consensus sequence of C1-X-S-X-P-C2 in Notch EGF repeats, thereby regulating cell-fate decisions (1). It is also known as CAP10-like protein (2) and KTELC1 due to the highly conserved CAP10 domain and the presence of an ER-retaining motif, KTEL, at the C-terminus. The human gene is reported to be involved in the pathogenesis of both acute myelogenous and T-acute lymphoblastic leukemias (3). POGLUT1 has hydrolase activity on UDP-Glc in a phosphatase-coupled glycosyltransferase assay (4).

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