

Human Protein O-Glucosyltransferase 1/POGLUT1

Monoclonal Mouse IgG₁ Clone # 737509

Catalog Number: MAB6437

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Protein O-Glucosyltransferase 1/POGLUT1 in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG ₁ Clone # 737509		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Protein O-Glucosyltransferase 1/POGLUT1 Arg24-Leu388 Accession # Q8NBL1		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

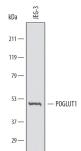
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA





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Detection of Human Protein O-Glucosyltransferase 1/POGLUT by Western Blot. Western blot shows lysates of JEG-3 human epithelial choriocarcinoma cell line. PVDF membrane was probed with 2 μ g/mL of Mouse Anti-Human Protein O-Glucosyltransferase 1/POGLUT Monoclonal Antibody (Catalog # MAB6437) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for

Guicosytransieraes I/POGLU1 Monocional Antibody (Catalog # MAB6437) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Protein O-Glucosytransferase I/POGLU1 at approximately 46 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

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).

References:

- 1. Acar, M. et al. (2008) Cell **132**:247.
- 2. Teng, Y. *et al.* (2006) Gene **371**:7
- 3. Wang, Y. et al. (2010) Genet Test Mol Biomarkers 14:127.
- 4. Wu, Z.L. et al. (2010) Glycobiology, in press.

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