

Datasheet for ABIN2783662
anti-OGT antibody (N-Term)[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	OGT
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OGT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human OGT
Sequence:	ASSVGNVADS TEPTKRMLSF QGLAELAHRE YQAGDFEAAE RHCMQLWRQE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against OGT. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	OGT
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Target Details

Alternative Name:	OGT (OGT Products)
Background:	<p>OGT catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains nine tetratricopeptide repeats and a putative bipartite nuclear localization signal. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. O-linked N-acetylglucosamine (O-GlcNAc) transferase (OGT) catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and glycosylation compete for similar serine or threonine residues, the two processes may compete for sites, or they may alter the substrate specificity of nearby sites by steric or electrostatic effects. The protein contains nine tetratricopeptide repeats and a putative bipartite nuclear localization signal. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.</p> <p>Alias Symbols: FLJ23071, HRNT1, MGC22921, O-GLCNAC</p> <p>Protein Interaction Partner: FBXW11, HUWE1, UBC, PSG1, PHC3, NUP62CL, TET2, SUMO1, NEDD8, WWOX, BAP1, P3H1, RPRD1B, PPME1, LAP3, DBNL, HSPBP1, GPN1, WDR4, ACTR2, TOM1L1, ZPR1, SURF2, LPP, AGFG1, ALAD, C14orf142, UBL4A, FOXO4, HCFC1, SMURF1, Hoxa1, Nfatc1, Nup62, RELA, PPP1CB, PPP1CA,</p> <p>Protein Size: 1046</p>
Molecular Weight:	117 kDa
Gene ID:	8473
NCBI Accession:	NM_181672 , NP_858058
UniProt:	O15294
Pathways:	Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 1046 AA
Restrictions:	For Research Use only

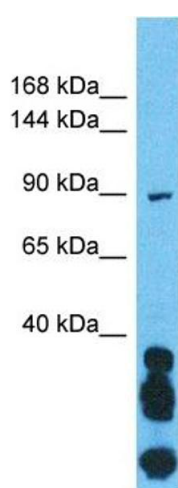
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

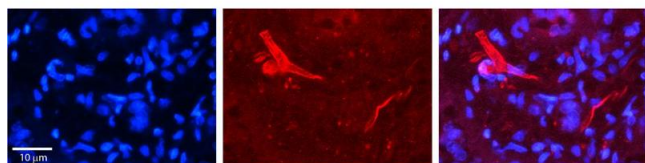
Product cited in: Mehrle, Rosenfelder, Schupp, del Val, Arlt, Hahne, Bechtel, Simpson, Hofmann, Hide, Glatting, Huber, Pepperkok, Poustka, Wiemann: "The LIFEdb database in 2006." in: **Nucleic acids research**, Vol. 34, Issue Database issue, pp. D415-8, (2005) ([PubMed](#)).

Images



Western Blotting

Image 1. Host: Rabbit Target Name: OGT Sample Type: 721_B Whole Cell lysates Antibody Dilution: 1.0ug/ml OGT is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells



Immunohistochemistry

Image 2. Rabbit Anti-OGT Antibody Formalin Fixed Paraffin Embedded Tissue: Human Pineal Tissue Observed Staining: Cytoplasmic in processes of pinealocytes and endothelial cells in blood vessels Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec



Western Blotting

Image 3. WB Suggested Anti-OGT Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: Human heart