

ARG64143
anti-OGT antibodyPackage: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes OGT
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms, Cow, Dog
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	This antibody is expected to recognise both reported isoforms (NP_858058.1 and NP_858059.1
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	OGT
Species	Human
Immunogen	C-YEHPKDLKLSGDR
Conjugation	Un-conjugated
Alternate Names	UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase 110 kDa subunit; O-GLCNAC; EC 2.4.1.255; OGT; HRNT1; HINCUT-1; O-linked N-acetylglucosamine transferase 110 kDa subunit; O-GlcNAc transferase subunit p110

Application Instructions

Application table	Application	Dilution
	FACS	10 µg/ml
	ICC/IF	10 µg/ml
	IHC-P	5 µg/ml
	WB	0.05 - 0.2 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide

Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

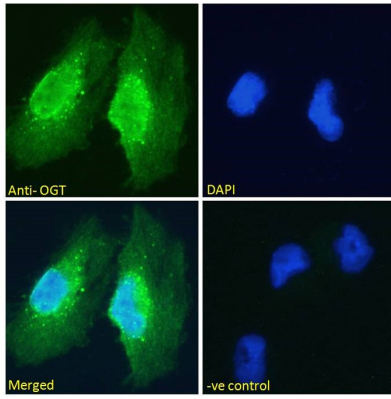
Database links	GeneID: 26295 Rat GeneID: 8473 Human Swiss-port # O15294 Human Swiss-port # P56558 Rat
Background	This gene encodes a glycosyltransferase that catalyzes the addition of a single N-acetylglucosamine in O-glycosidic linkage to serine or threonine residues. Since both phosphorylation and 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 multiple tetratricopeptide repeats that are required for optimal recognition of substrates. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	117 kDa
PTM	Ubiquitinated, leading to its proteasomal degradation. Phosphorylation on Ser-3 or Ser-4 by GSK3-beta positively regulates its activity.

Images



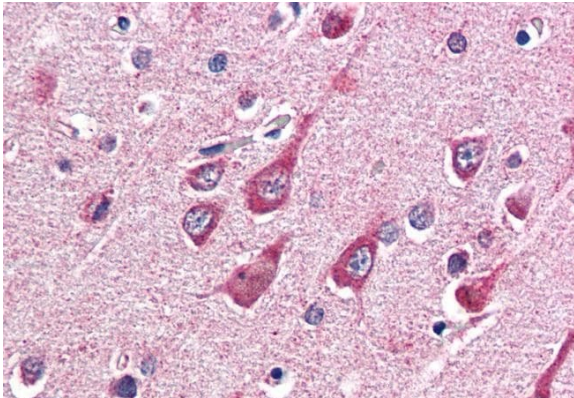
ARG64143 anti-OGT antibody WB image

Western Blot: Rat Pancreas lysate (35 µg protein in RIPA buffer) stained with ARG64143 anti-OGT antibody at 0.05 µg/ml dilution.



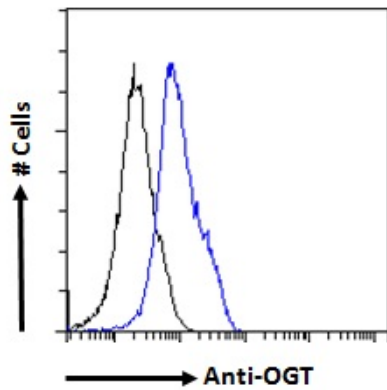
ARG64143 anti-OGT antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U251 cells permeabilized with 0.15% Triton. Cells were stained with ARG64143 anti-OGT antibody (green) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g}/\text{ml}$ dilution.



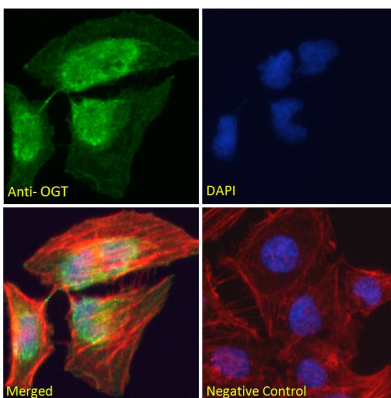
ARG64143 anti-OGT antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cortex tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64143 anti-OGT antibody at 5 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



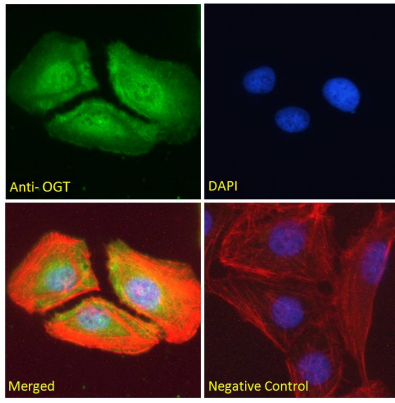
ARG64143 anti-OGT antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HEK293 cells permeabilized with 0.5% Triton. Cells were stained with ARG64143 anti-OGT antibody (blue line) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG64143 anti-OGT antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG64143 anti-OGT antibody (green) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Phalloidin (red) for Actin filaments staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g}/\text{ml}$ dilution.



ARG64143 anti-OGT antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG64143 anti-OGT antibody (green) at 10 $\mu\text{g}/\text{ml}$ dilution for 1 hour. DAPI (blue) for nuclear staining. Phalloidin (red) for Actin filaments staining. Negative control: Unimmunized goat IgG (green) at 10 $\mu\text{g}/\text{ml}$ dilution.