UK Office

Everest Biotech Ltd
Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:
info@everestbiotech.com
Sales:
sales@everestbiotech.com
Tech support:
support@everestbiotech.com

Tel: +44 (0)1869 238326
Fax: +44 (0)1869 238327

US Office

Everest Biotech c/o Abcore
405 Maple Street, Suite A106
Ramona,
CA 92065
USA

Inquiries:
info@everestbiotech.com
Sales:
usasales@everestbiotech.com
Tech support:
support@everestbiotech.com

Tel: 888-320-4628 (toll-free)
Fax: 888-841-9041

www.everestbiotech.com

Research Use Only. Not for diagnostic or therapeutic use.

EB07626 - Goat Anti-OGT Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: OGT, O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase), FLJ23071, HRNT1, MGC22921, O-GLCNAC, O-GlcNAc transferase p110 subunit O-linked GlcNAc transferase, uridinediphospho-N-acetylglucosamine:polypeptide beta-N-acetylglucosaminyl transferase
Official Symbol: OGT
Accession Number(s): NP_858058.1; NP_858059.1
Human GeneID(s): 8473
Non-Human GeneID(s): 108155 (mouse), 26295 (rat)
Important Comments: This antibody is expected to recognise both reported isoforms (NP_858058.1 and NP_858059.1

Immunogen

Peptide with sequence C-YEHPKDLKLSDGR, from the internal region of the protein sequence according to NP_858058.1; NP_858059.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.
Western blot: Approx 110kDa band observed in Rat Pancreas lysates calculated MW of 116kDa according to NP_858058.2). An additional band of unknown identity was also consistently observed at 60kDa. This band was successfully blocked by incubation with the immunising peptide. Recommended concentration: 0.05-0.2µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Mouse Brain for this particular batch.
IHC: Paraffin embedded Human Brain (Cortex). Recommended concentration: 5µg/ml.

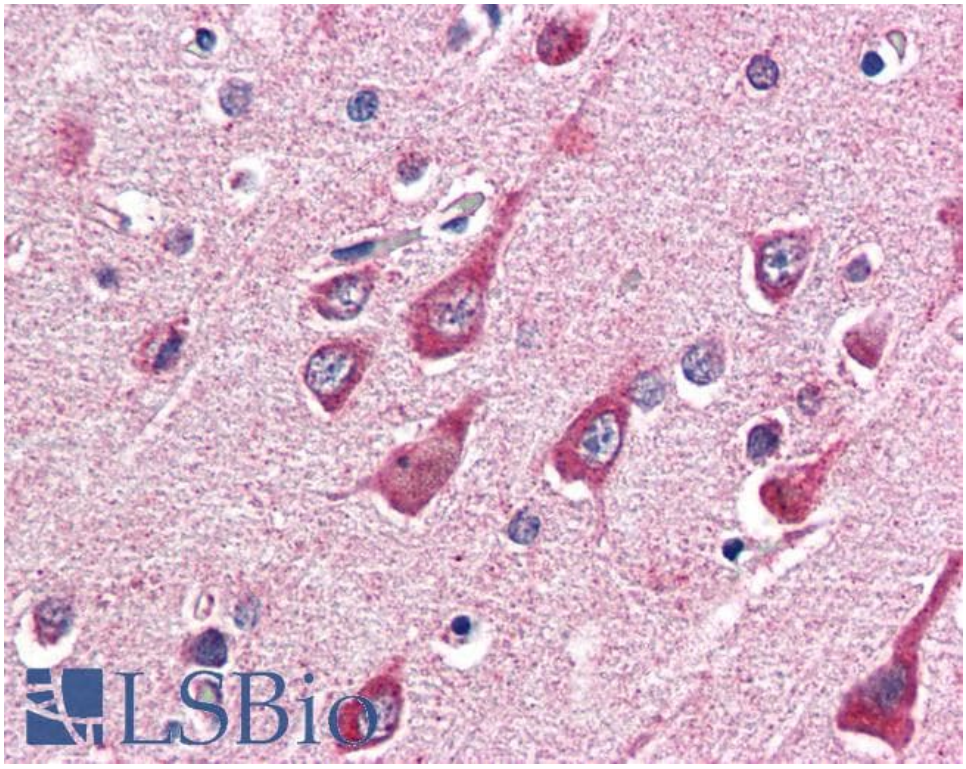
Immunofluorescence: Strong expression of the protein seen in the nucleus of HeLa, U2OS and Glioblastoma U251 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HEK293 cells. Recommended concentration: 10ug/ml.

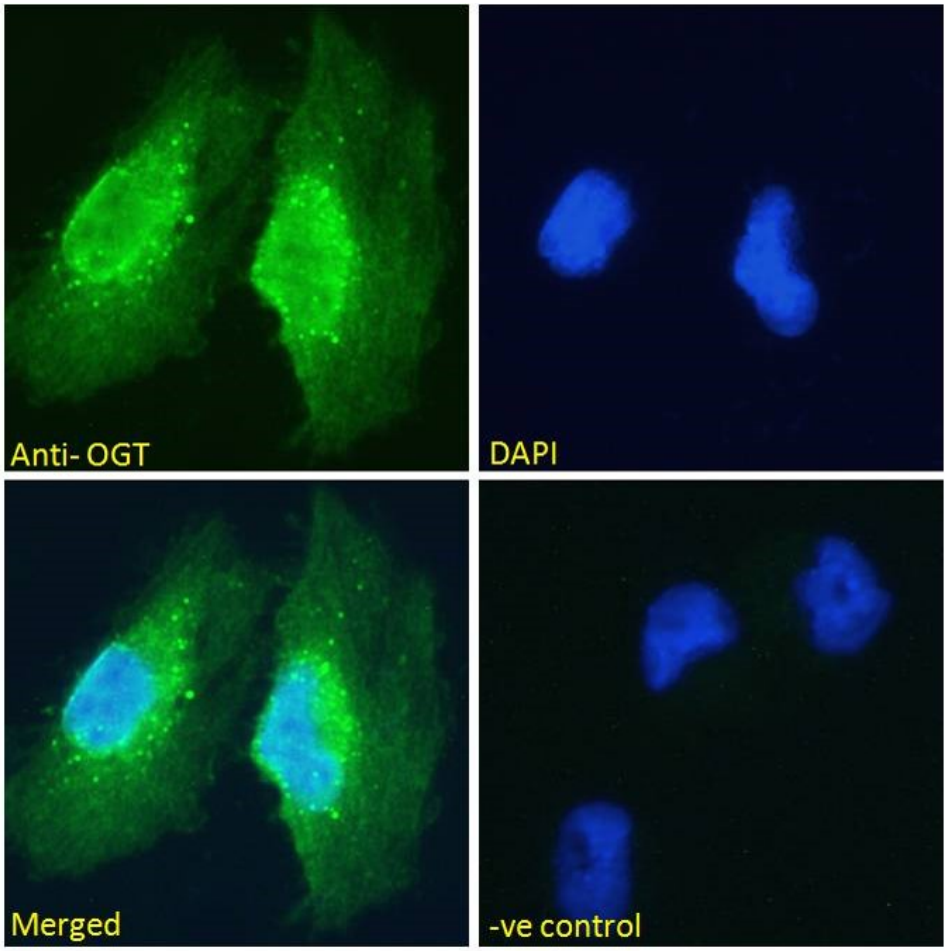
Species Reactivity

Tested: Human, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow

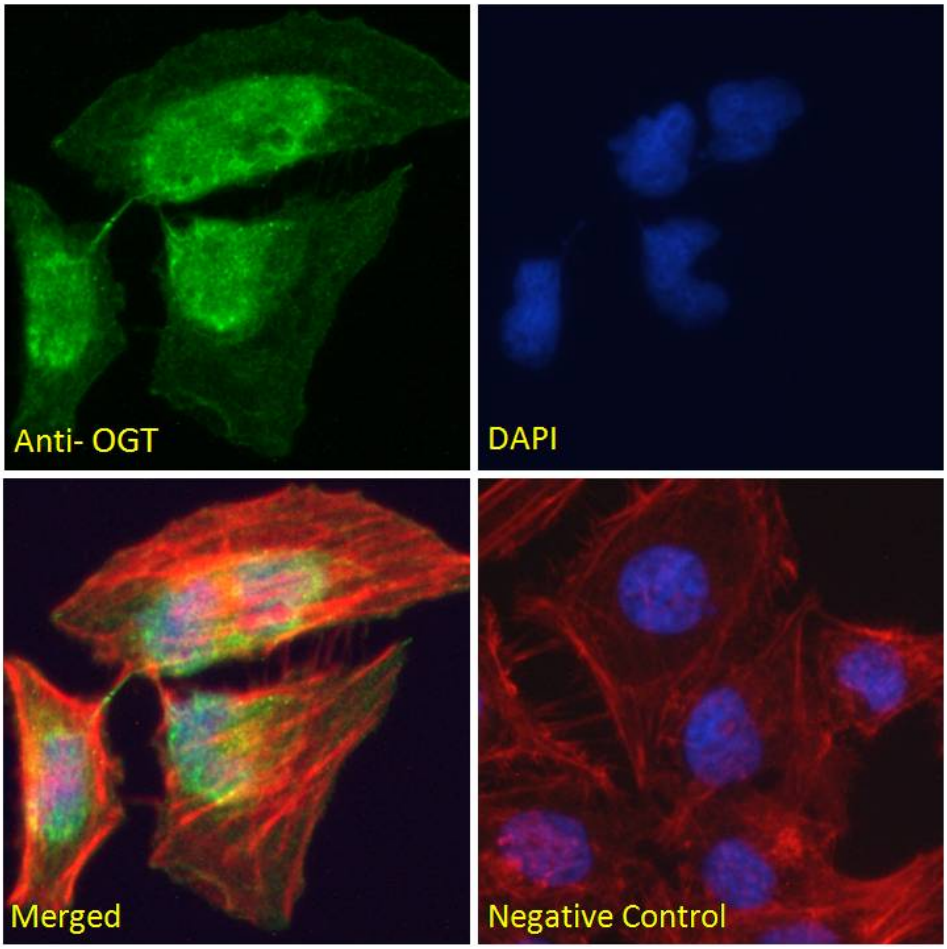
EB07626 (0.05µg/ml) staining of Rat Pancreas lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



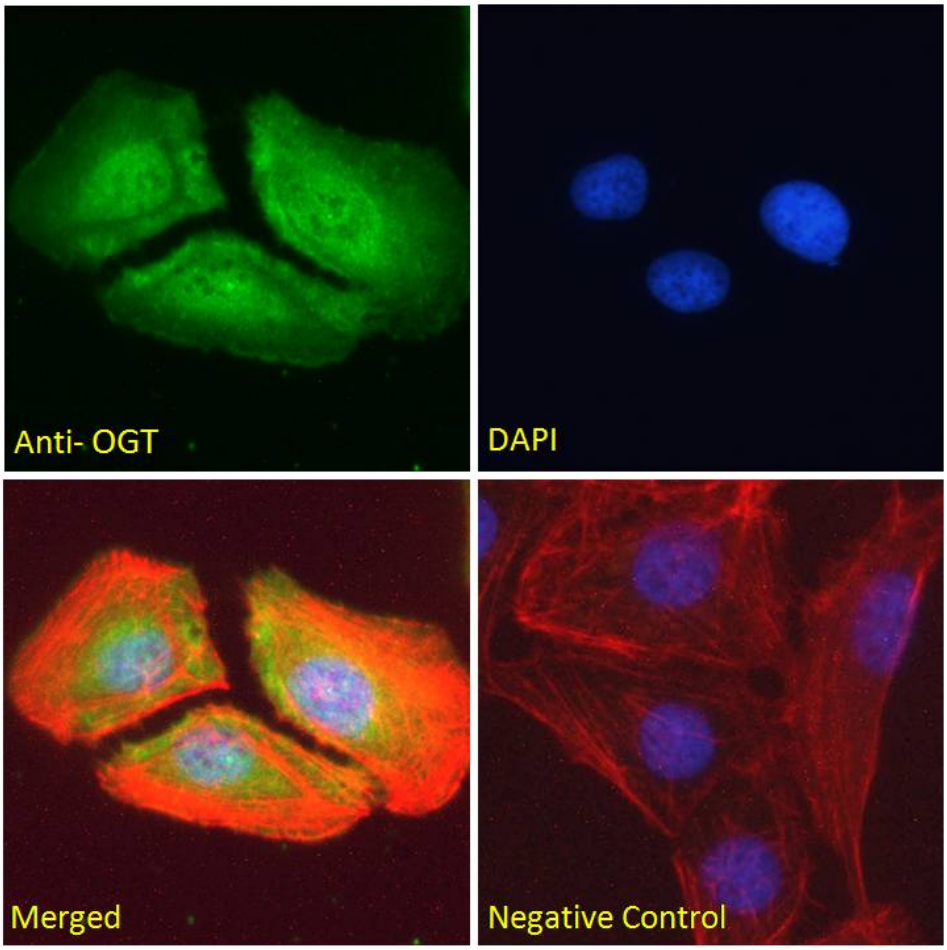
EB07626 (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



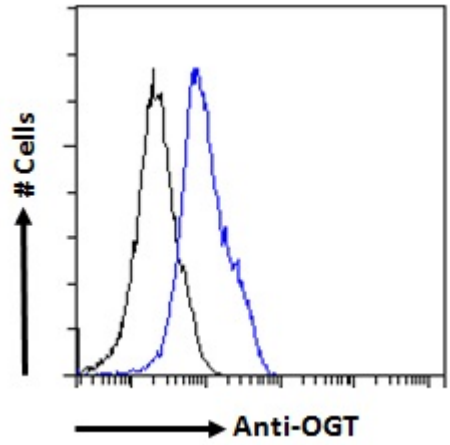
EB07626 Immunofluorescence analysis of paraformaldehyde fixed U251 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07626 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07626 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and membrane/cytoplasmic staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07626 Flow cytometric analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.