

Product Name: KD-Validated EOGT Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01578**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 62.0kDa

Antigen Information

Gene Name	EOGT EOGT; EGF Domain Specific O-Linked N-Acetylglucosamine Transferase; AER61; EGF Domain-Specific O-Linked N-Acetylglucosamine (GlcNAc) Transferase; EGF Domain-Specific
Alternative Names	O-Linked N-Acetylglucosamine Transferase; Extracellular O-Linked N-Acetylglucosamine Transferase; AER61 Glycosyltransferase; FLJ33770; C3orf64; EOGT1; Chromosome 3 Open Reading Frame 64; EGF-O-GlcNAc Transferase; EC 2.4.1.255; C3ORF64; AOS4
Gene ID	285203.0
SwissProt ID	Q5NDL2
Immunogen	A synthesized peptide derived from human AER61

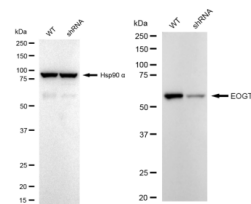
Background

This gene encodes an enzyme that acts in the lumen of the endoplasmic reticulum to catalyze the transfer of N-acetylglucosamine to serine or threonine residues of extracellular-targeted proteins. This enzyme modifies proteins containing eukaryotic growth factor (EGF)-like domains, including the Notch receptor, thereby regulating developmental signalling. Mutations in this gene have been observed in individuals with Adams-Oliver syndrome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

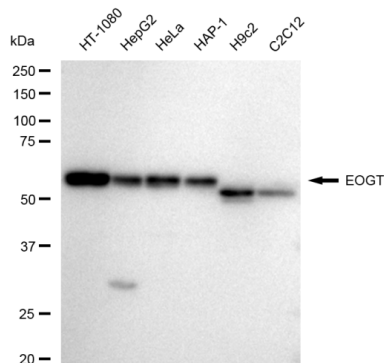
Research Area

Cell Biology

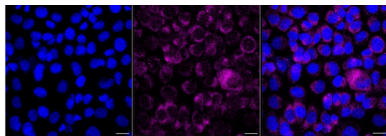
Image Data



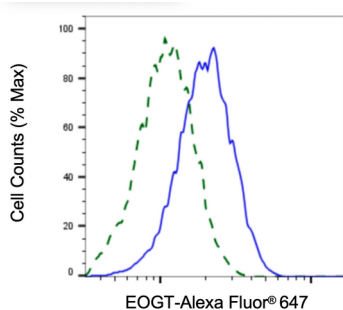
Western blotting analysis using EOGT antibody (KVA01578). EOGT expression in wild type (WT) and EOGT shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with EOGT antibody (KVA01578, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



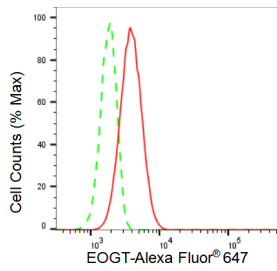
Western blotting analysis using EOGT antibody (KVA01578). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with EOGT antibody (KVA01578, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. EOGT, EGF domain specific O-linked N-acetylglucosamine transferase.



Immunocytochemical staining of HT-1080 cells with EOGT antibody (KVA01578, 1:1,000). Nuclei were stained blue with DAPI; EOGT was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of EOGT knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with EOGT antibody (KVA01578, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of EOGT expression in HT-1080 cells using EOGT antibody (KVA01578, 1:2,000). Green, isotype control; red, EOGT.