

Product Name: KD-Validated MGEA5 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVAb01742**

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: 102.9kDa

Antigen Information

Gene Name	OGA
Alternative Names	OGA; O-GlcNAcase; NCOAT; MEA5; Nuclear Cytoplasmic O-GlcNAcase And Acetyltransferase; MGEA5; Meningioma Expressed Antigen 5 (Hyaluronidase); N-Acetyl-Beta-D-Glucosaminidase; Meningioma-Expressed Antigen 5; N-Acetyl-Beta-Glucosaminidase; Beta-N-Acetylglucosaminidase; Beta-N-Acetylhexosaminidase; Protein O-GlcNAcase; Beta-Hexosaminidase; Hyaluronidase In Meningioma; Bifunctional Protein NCOAT; EC 3.2.1.169; KIAA0679; HEXC
Gene ID	10724.0
SwissProt ID	O60502
Immunogen	A synthesized peptide derived from human MGEA5

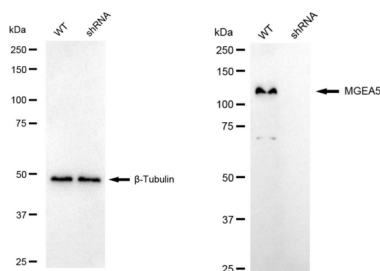
Background

The dynamic modification of cytoplasmic and nuclear proteins by O-linked N-acetylglucosamine (O-GlcNAc) addition and removal on serine and threonine residues is catalyzed by OGT (MIM 300255), which adds O-GlcNAc, and MGEA5, a glycosidase that removes O-GlcNAc modifications (Gao et al., 2001 [PubMed 11148210]).[supplied by OMIM, Mar 2008]

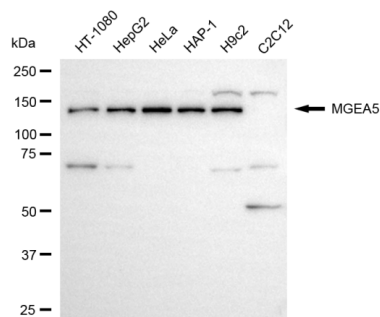
Research Area

Signal Transduction,Cancer,Metabolism

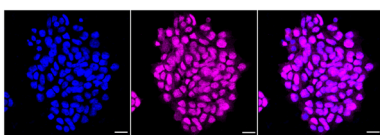
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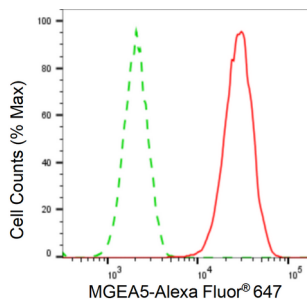
Western blotting analysis using MGEA5 antibody (KVA01742). MGEA5 expression in wild-type (WT) and OGA shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with MGEA5 antibody (KVA01742, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. OGA, O-GlcNAcase.



Western blotting analysis using MGEA5 antibody (KVA01742). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MGEA5 antibody (KVA01742, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with MGEA5 antibody (KVA01742, 1:1,000). Nuclei were stained blue with DAPI; MGEA5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of MGEA5 expression in HAP-1 cells using MGEA5 antibody (KVA01742, 1:2,000). Green, isotype control; red, MGEA5.