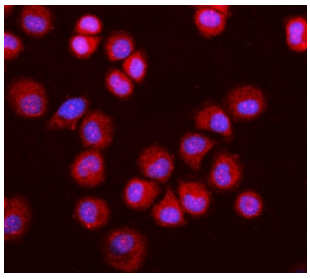
O-GlcNAcase Antibody / OGA / MGEA5 (RQ6503)

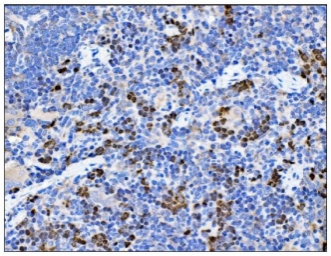
Catalog No.	Formulation	Size
RQ6503	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

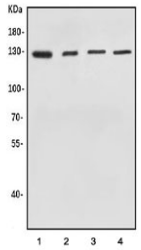
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O60502
Localization	Cytoplasmic, nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This O-GlcNAcase antibody is available for research use only.



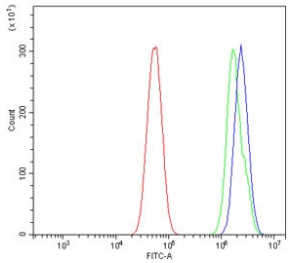
Immunofluorescent staining of FFPE human T-47D cells with O-GlcNAcase antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE rat spleen tissue with O-GlcNAcase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HEK293, 2) human HeLa, 3) rat brain and 4) mouse brain lysate with O-GlcNAcase antibody. Predicted molecular weight ~103 kDa, routinely observed at ~130 kDa (cytoplasmic form) and ~75 kDa (nuclear form).



Flow cytometry testing of human U-87 MG cells with O-GlcNAcase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= O-GlcNAcase antibody.

Description

Protein O-GlcNAcase (OGA) is an enzyme with systematic name (protein)-3-O-(N-acetyl-D-glucosaminyl)-L-serine/threonine N-acetylglucosaminyl hydrolase. 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, which adds O-GlcNAc, and MGEA5, a glycosidase that removes O-GlcNAc modifications.

Application Notes

Optimal dilution of the O-GlcNAcase antibody should be determined by the researcher.

Immunogen

Amino acids KVYTIRPYFPKDEASVYKICRE from the human protein were used as the immunogen for the O-GlcNAcase antibody.

Storage

After reconstitution, the O-GlcNAcase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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