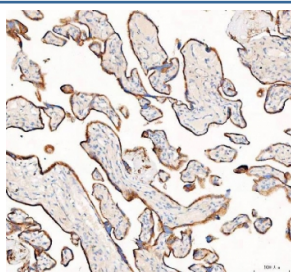


4-Alpha-glucanotransferase Antibody / AGL / Glycogen debranching enzyme (RQ8505)

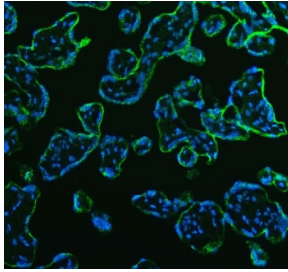
Catalog No.	Formulation	Size
RQ8505	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

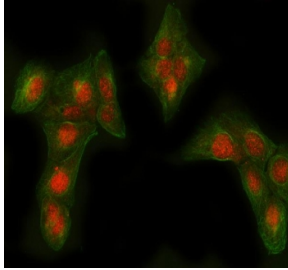
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P35573
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This 4-Alpha-glucanotransferase antibody is available for research use only.



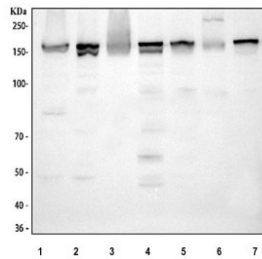
IHC staining of FFPE human placental tissue with 4-Alpha-glucanotransferase antibody.
HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



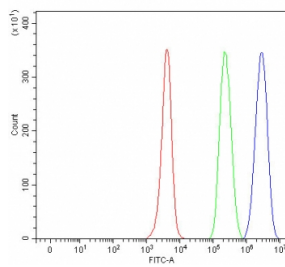
Immunofluorescent staining of FFPE human placental tissue with 4-Alpha-glucanotransferase antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Immunofluorescent staining of FFPE human U-2 OS cells with 4-Alpha-glucanotransferase antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human Jurkat, 2) human RT4, 3) human K562, 4) rat heart, 5) rat liver, 6) mouse heart and 7) mouse liver tissue lysate with 4-Alpha-glucanotransferase antibody. Predicted molecular weight ~174 kDa.



Flow cytometry testing of fixed and permeabilized human JK cells with 4-Alpha-glucanotransferase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= 4-Alpha-glucanotransferase antibody.

Description

This gene encodes the glycogen debrancher enzyme which is involved in glycogen degradation. This enzyme has two independent catalytic activities which occur at different sites on the protein: a 4-alpha-glucotransferase activity and a amylo-1,6-glucosidase activity. Mutations in this gene are associated with glycogen storage disease although a wide range of enzymatic and clinical variability occurs which may be due to tissue-specific alternative splicing. Alternatively spliced transcripts encoding different isoforms have been described.

Application Notes

Optimal dilution of the 4-Alpha-glucanotransferase antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids H3-K265) was used as the immunogen for the 4-Alpha-glucanotransferase antibody.

Storage

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

