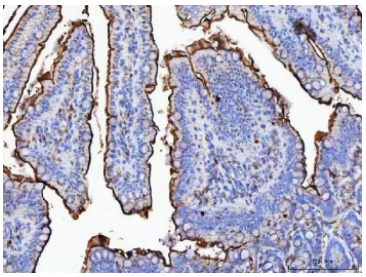
Maltase-glucoamylase Antibody / MGAM (RQ8351)

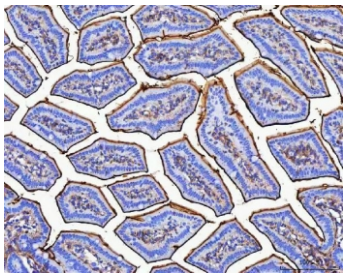
Catalog No.	Formulation	Size
RQ8351	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

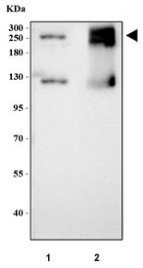
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43451
Localization	Cell membrane
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Maltase-glucoamylase antibody is available for research use only.



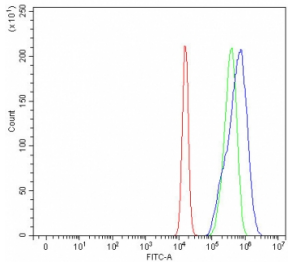
IHC staining of FFPE rat colon tissue with Maltase-glucoamylase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse colon tissue with Maltase-glucoamylase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat small intestine and 2) mouse small intestine tissue lysate with Maltase-glucoamylase antibody. Predicted molecular weight ~210 kDa and ~312 kDa (two isoforms) but may be observed at higher molecular weights due to glycosylation.



Flow cytometry testing of fixed and permeabilized human U-2 OS cells with Maltase-glucoamylase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Maltase-glucoamylase antibody.

Description

Maltase-glucoamylase, intestinal is an enzyme that in humans is encoded by the MGAM gene. This gene encodes maltase-glucoamylase, which is a brush border membrane enzyme that plays a role in the final steps of digestion of starch. The protein has two catalytic sites identical to those of sucrase-isomaltase, but the proteins are only 59% homologous. Both are members of glycosyl hydrolase family 31, which has a variety of substrate specificities.

Application Notes

Optimal dilution of the Maltase-glucoamylase antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (Y131-I2697) was used as the immunogen for the Maltase-glucoamylase antibody.

Storage

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