

Product datasheet

Recombinant Human MGEA5/OGA protein ab153117

1 Image

Description

<b>Product name</b>	Recombinant Human MGEA5/OGA protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

**Sequence**

```

MVQKESQATLEERESELSSNPAASAGASLEPPAAPA
PGEDNPAGAGGAAV
AGAAGGARRFLCGVVEGFYGRPWWMEQRKELFRRLQ
KWELNTYLYAPKDD
YKHRMFWREMYSVEEAEQLMTLISAAREYEIEFYAISP
GLDITFSNPKE
VSTLKRKLDQVSQFGCRSFALLFDDIDHNMCAADKEV
FSSFAHAQVSITN
EIYQYLGEPEPTEFLFCPTEYCGTFCYPNVSQSPYLRTVG
EKLLPGIEVLWT
GPKVVSKEIPVESIEEVSKIIRAPVIWDNIHANDYDQKR
LFLGPYKGRS
TELIPRLKGVLTNPNCFEANYVAIHTLATWYKSNMNG
VRKDVVMTDSED
STVSIQIKLENEGSDEDIETDVLVSPQMALKLALTEWLQ
EFGVPHQYSSR
QVAHSGAKASVVDGTPPLVAAPSLNATTVVTTVYQEPI
MSQGAALSGETT
LTKEEEKKQPDEEPMVMVVEKQEEETHKNDNQILSEI
VEAKMAEELKPM
TDKESIAESKSPMSMQEDCISDIAPMQTDEQTNKEQ
FVPGPNEKPLYTA
EPVTLEDLQLLADLFYLPYEHGPKGAQMLREFQWLRA
NSSVSVNCKGKD
SEKIEEWRSSRAAKFEEMCGLVMGMFTRLSNCANRTIL
YDMYSYVWDIKSI
MSMVKSFVQWLGCRSHSSAQFLIGDQEPWAFRGGLA
GEFQRLLPIDGAND
LFFQPPPLTPTSKVYTIRPYFPKDEASVYKICREMYDDG

```

VGLPFQSQPDL  
IGDKLVGGLLSLSLDYCFVLEDEDGICGYALGTVDVTP  
FIKKCKISWIPF  
MQEKYTKPNGDKELSEAEKIMLSFHEEQEVLPETFLA  
NFPSLIKMDIHKK  
VTDPSSVAKSMMACLLSSLKANGSRGAFCEVRPDDKR  
ILEFYSKLGCFEIA KMEGFPKDVVILGRSL

**Amino acids** 1 to 916  
**Tags** GST tag N-Terminus

## Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab153117** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Western blot  
ELISA  
**Form** Liquid  
**Additional notes** Protein concentration is above or equal to 0.05 mg/ml.  
Previously labelled as MGEA5

## Preparation and Storage

---

**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

---

**Function** Isoform 1: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc and 4-methylumbelliferone-GlcNAc as substrates but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro) (PubMed:11148210). Does not bind acetyl-CoA and does not have histone acetyltransferase activity (PubMed:24088714).  
Isoform 3: Cleaves GlcNAc but not GalNAc from O-glycosylated proteins. Can use p-nitrophenyl-beta-GlcNAc as substrate but not p-nitrophenyl-beta-GalNAc or p-nitrophenyl-alpha-GlcNAc (in vitro), but has about six times lower specific activity than isoform 1.

**Tissue specificity** Ubiquitous. Shows highest expression in the brain, placenta and pancreas.

**Sequence similarities** Belongs to the glycosyl hydrolase 84 family.

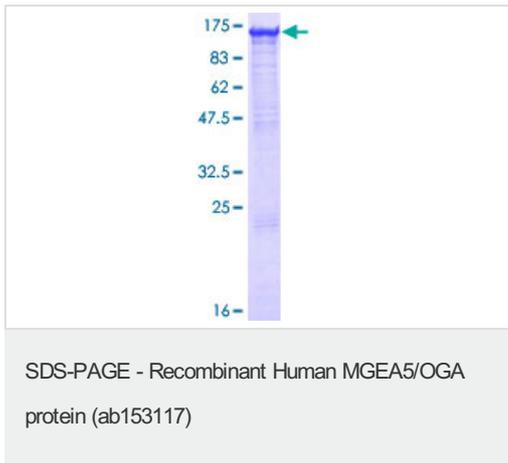
**Post-translational modifications** Proteolytically cleaved by caspase-3 during apoptosis. The fragments interact with each other; cleavage does not decrease enzyme activity.

**Cellular localization** Cytoplasm and Nucleus.

---

## Images

---



ab153117 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors