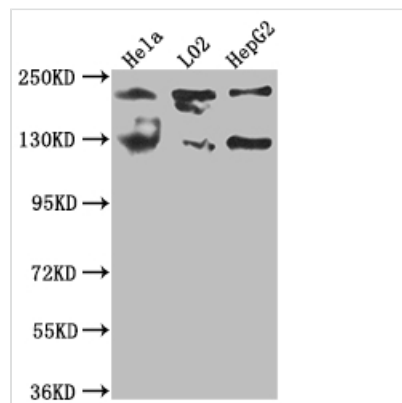




# MGEA5 Antibody

<b>Product Code</b>	CSB-RA833565A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	O60502
<b>Immunogen</b>	A synthesized peptide derived from human MGEA5
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB; Recommended dilution: WB:1:500-1:5000
<b>Relevance</b>	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).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Immunology; Metabolism; Signal transduction
<b>Gene Names</b>	MGEA5
<b>Accession NO.</b>	8D12

## Image



### Western Blot

Positive WB detected in: HeLa whole cell lysate, L02 whole cell lysate, HepG2 whole cell lysate

All lanes: MGEA5 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 103, 96, 77, 97 kDa

Observed band size: 130 kDa

## Description

The MGEA5 gene encodes protein O-GlcNAcase (OGA), which is responsible



for the hydrolysis of the O-linked  $\beta$ -N-acetyl glucosamine (O-GlcNAc) modification, an essential protein glycosylation event that modulates the function of numerous cellular proteins in response to nutrients and stress. OGA is a member of the family of hexosaminidases and is mainly localized in the cytosol. However, unlike lysosomal hexosaminidases, OGA activity is the highest at neutral pH (approximately 7). Nicholas B. Hastings et al. has demonstrated that inhibition of O-GlcNAcase leads to elevation of O-GlcNAc tau and reduction of tauopathy and cerebrospinal fluid tau in rTg4510 mice.

Compared with the polyclonal and monoclonal antibodies of MGEA5, this MGEA5 recombinant antibody has the features of increased reproducibility and control, animal-free technology, high degree of monovalency, high batch-to-batch consistency, easier isotype conversion, etc. And it has been validated in ELISA, WB.