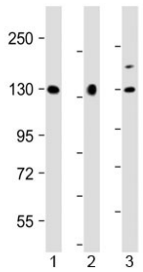
MGEA5 Antibody / OGA / O-GlcNAcase (F54180)

Catalog No.	Formulation	Size
F54180-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54180-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O60502
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 1:1000-1:2000
Limitations	This MGEA5 antibody is available for research use only.



Western blot testing of human 1) U-87 MG, 2) HeLa and 3) BxPC-3 cell lysate with MGEA5 antibody at 1:2000. Predicted molecular weight ~103 kDa, routinely observed at ~130 kDa (cytoplasmic form) and ~75 kDa (MGEA5s/nuclear form).

Description

Isoform 1 (Cytoplasmic): 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 (Nuclear): 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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the MGEA5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 236-269 from human MGEA5 was used as the immunogen for the MGEA5 antibody.

Storage

Aliquot the MGEA5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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