

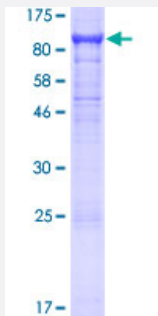
Full-Length

MAG (Human) Recombinant Protein (P01)

Catalog # H00004099-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAG full-length ORF (NP_002352.1, 1 a.a. - 626 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MIFLTALPLFWIMISASRGGHWGAWMPSSISAFEGTCVSIPCRFDFPDELRAVVHGVWYFNSPY
PKNYPPVVKSRSTQVVHESFQGRSRLGDLGLRNCTLLSNVSPELGGKYYFRGDLGGYNQYTFS
EHSVLDIVNTPNIVPPEVVAGTEVEVSCMVPDNCPELRPELSWLGHGELGEPVAVLGRLEDEG
TWVQVSLHFVPTREANGHRLGCQASFPNTTLQFEGYASMDVKYPPVIVEMNSSVEAIEGSHVSL
LCGADSNPPPLLTWMRDGTVLREAVAESLLEEEVTPAEDGVYACLAENAYGQDNRTVGLSVM
YAPWKPTVNGTMVAVEGETVSILCSTQSNPDPILTIFKEKQILSTVIYESELQLELPAVSPEDDGEY
WCVAENQYQQRATAFNLSVEFAPVLLLESHCAAARDTVQCLCVVKSNPPEPSVAFELPSRNVTV
NESEREFVYSERSGLVLTSLTLRGQAQAPPRVICTARNLYGAKSLELPFQGAHRLMWAKIGPVGA
VVAFAILIAVCYTQTRRKKNVTESPSFSAGDNPPVLFSSDFRISGAPEKYESERRLGSEERRLLGLR
GEPPELDLSYSHSDLGKRPTKDSYTLTEELAEYAEIRVK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

95.5

Interspecies Antigen Sequence

Mouse (94); Rat (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MAG

Entrez GeneID	4099
GeneBank Accession#	NM_002361.2
Protein Accession#	NP_002352.1
Gene Name	MAG
Gene Alias	GMA, S-MAG, SIGLEC-4A, SIGLEC4A
Gene Description	myelin associated glycoprotein
Omim ID	159460
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a type I membrane protein and member of the immunoglobulin superfamily. It is thought to be involved in the process of myelination. It is a lectin that binds to sialylated glycoconjugates and mediates certain myelin-neuron cell-cell interactions. Two alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq]
Other Designations	myelin-associated glycoprotein sialic acid-binding immunoglobulin-like lectin 4A

Publication Reference

- [Pathophysiology of hypoperfusion of the precuneus in early Alzheimer's disease.](#)

Miners JS, Palmer JC, Love S.

Brain Pathology 2016 Jul; 26(4):533.

Application: ELISA, Human, Brain

- [Assessing white matter ischemic damage in dementia patients by measurement of myelin proteins.](#)

Barker R, Wellington D, Esiri MM, Love S.

Journal of Cerebral Blood Flow and Metabolism 2013 Jul; 33(7):1050.

Application: ELISA, As a standard of ELISA

- [Neural cell adhesion molecule - Description of a CSF ELISA method and evidence of reduced levels in selected neurological disorders.](#)

Gnanapavan S, Grant D, Illes-Toth E, Lakdawala N, Keir G, Giovannoni G.

Journal of Neuroimmunology 2010 Aug; 225(1-2):118.

Application: Func, Capture antibody

Pathway

- [Cell adhesion molecules \(CAMs\)](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Schizophrenia](#)