

Product Data Sheet

O-Linked N-Acetylglucosamine Antibody (RL2)

| Tested Species Reactivity | Published Species Reactivity |
|---------------------------|------------------------------|
| All (All) | Amphibian (Am) |
| | Bovine (Bv) |
| | Drosophila (Dm) |
| | Fish (Fs) |
| | Human (Hu) |
| | Invertebrate (Inv) |
| | Mouse (Ms) |
| | Not Applicable (N/A) |
| | Non-human primate (Nhp) |
| | Rat (Rt) |

| Tested Applications | Dilution * |
|---|-----------------|
| Western Blot (WB) | 1:1,000 |
| Immunofluorescence (IF) | 1:100 |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:200 |
| Immunoprecipitation (IP) | Assay dependent |
| ChIP assay (ChIP) | Assay Dependent |
| Dot blot (DB) | 1/800 |

| Published Applications | Dilution |
|----------------------------|------------------|
| Western Blot (WB) | See publications |
| Immunocytochemistry (ICC) | See publications |
| Immunohistochemistry (IHC) | See publications |
| Immunoprecipitation (IP) | See publications |
| ChIP assay (ChIP) | See publications |
| ELISA (ELISA) | See publications |

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

| Details | |
|------------------------|---|
| Catalog Number: | MA1-072 |
| Size: | 100 µl |
| Class: | Monoclonal |
| Type: | Antibody |
| Clone: | RL2 |
| Host / Isotype: | Mouse / IgG1 |
| Immunogen: | Pore complex-lamina fraction purified from rat liver nuclear envelopes. |

| Form Information | |
|----------------------------|----------------------------------|
| Form: | Liquid |
| Concentration: | 2mg/ml |
| Purification: | Protein A |
| Storage Buffer: | PBS |
| Preservative: | 0.05% sodium azide |
| Storage Conditions: | -20° C, Avoid Freeze/Thaw Cycles |

Product Specific Information

MA1-072 detects nuclear pore complex (NPC), cytoplasmic and intranuclear O-linked glycoproteins from human, mouse, virus and rat tissues.

MA1-072 has been successfully used in Western blot, immunofluorescence and immunoprecipitation procedures. By Western blot, this antibody recognizes up to eight different proteins from the NPC of approximately 210, 180, 145, 100, 63, 58, 54 and 45 kDa as well as other O-linked glycoproteins outside of the NPC. Immunofluorescence staining of the NPC with MA1-072 primarily labels NPC O-linked glycoproteins and has been successfully used on a wide variety of mammalian cells. Labeling occurs at the NPC, with most of the labeling at the cytoplasmic and/or nucleoplasmic margins, as well as within the nucleus.

The MA1-072 immunogen is pore complex-lamina fraction purified from rat liver nuclear envelopes.

General Information

Diffusion of metabolites and small non-nuclear molecules as well as active, mediated import of protein and export of protein and RNA through the nuclear envelope occurs through nuclear pore complexes or NPC's. NPC's contain up to 100 different polypeptides which have a combined mass of about 125 megadaltons. The channel available for passive transport through the NPC is about 9-10 nm in diameter while carrier mediated changes in the NPC result in a ~25 nm channel used for larger, actively transported molecules. Of the 100 polypeptides, at least 8 of these are O-linked N-acetylglucosamine-modified in mammalian cells. All of the mammalian O-linked glycoproteins contain multiple copies of phenylalanine, glycine dipeptide repeats dispersed throughout part of their sequence. Studies indicate that the NPC O-linked glycoproteins have a direct role in nuclear protein import.

This product is for In Vitro experimental use only. Not for resale without express authorization.

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Thermo Fisher Scientific
3747 N. Meridian Road

PO Box 117
Rockford, IL 61105 USA

(815) 968-0747 or (800) 874-3723
(815) 968-7316 fax

thermoscientific.com/pierce

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| | Drosophila (Dm) |
| | Fish (Fs) |
| | Human (Hu) |
| | Invertebrate (Inv) |
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| Class: | Monoclonal |
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| Clone: | RL2 |
| Host / Isotype: | Mouse / IgG1 |
| Immunogen: | Pore complex-lamina fraction purified from rat liver nuclear envelopes. |

| Form Information | |
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PO Box 117
Rockford, IL 61105 USA

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