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# MARCH7 Rabbit pAb

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Catalog # AP59230

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | Q9H992 |
| **Reactivity** | Human, Rat |
| **Predicted** | Mouse, Dog, Pig, Horse, Rabbit, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 78051 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human MARCH7/Axotrophin 31-130/704 |
| **Epitope Specificity** | |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Contains 1 RING-CH-type zinc finger. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | Axotrophin is a stem cell gene that encodes a protein which is involved in T lymphocyte regulation (especially in regulating the proliferation) and leukemia inhibitory factor (LIF) release. LIF is a neuropoietic cytokine that is important for stem cell regulation and thymocyte stimulation. Both Axotrophin and LIF are linked to transplantation intolerance. Axotrophin is also involved in corpus callosum differentiation and may play a role in glial cell line-derived neurotrophic factor (GDNF)-dependent sensory neuron survival in the substantia gelatinosa of the adult spinal cord. Axotrophin is primarily expressed in the hippocampus, cortex, purkinje and granule cells of the cerebellum. |

## Additional Information

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| **Gene ID** | 64844 |
| **Other Names** | E3 ubiquitin-protein ligase MARCHF7, 2.3.2.27, Axotrophin, Membrane-associated RING finger protein 7, Membrane-associated RING-CH protein VII, MARCH-VII, RING finger protein 177, RING-type E3 ubiquitin transferase MARCHF7, MARCHF7 (HGNC:17393), AXOT, MARCH7, RNF177 |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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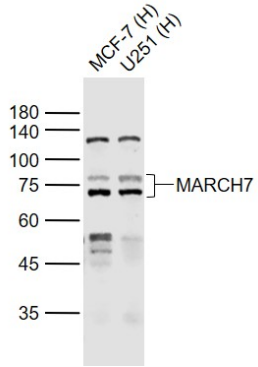
| **Name** | MARCHF7 ( HGNC:17393) |
| **Synonyms** | AXOT, MARCH7, RNF177 |
| **Function** | E3 ubiquitin-protein ligase which may specifically enhance the E2 activity of HIP2. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates (PubMed:16868077). May be involved in T-cell proliferation by regulating LIF secretion (By similarity). May play a role in lysosome homeostasis (PubMed:31270356). Promotes 'Lys-6', 'Lys-11' and 'Lys-63'- linked mixed polyubiquitination on ATG14 leading to the inhibition of autophagy by impairing the interaction between ATG14 and STX7 (PubMed:37632749). Participates in the dopamine-mediated negative regulation of the NLRP3 inflammasome by promoting its uibiquitination and subsequent degradation (PubMed:25594175). |
| **Cellular Location** | Cytoplasm. |

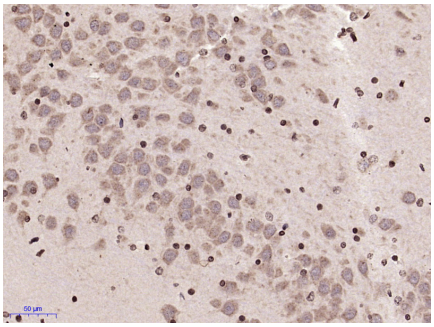
## Background

Axotrophin is a stem cell gene that encodes a protein which is involved in T lymphocyte regulation (especially in regulating the proliferation) and leukemia inhibitory factor (LIF) release. LIF is a neuropoietic cytokine that is important for stem cell regulation and thymocyte stimulation. Both Axotrophin and LIF are linked to transplantation intolerance. Axotrophin is also involved in corpus callosum differentiation and may play a role in glial cell line-derived neurotrophic factor (GDNF)-dependent sensory neuron survival in the substantia gelatinosa of the adult spinal cord. Axotrophin is primarily expressed in the hippocampus, cortex, purkinje and granule cells of the cerebellum.

## Images




Sample:
Lane 1: MCF-7 (Human) Cell Lysate at 30 ug
Lane 2: U251 (Human) Cell Lysate at 30 ug
Primary: Anti-MARCH7 (AP59230) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 78 kD
Observed band size: 78/74 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (MARCH7) Polyclonal Antibody, Unconjugated (AP59230) at 1:400 overnight at 4℃, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.