

**MARCH7 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59230**

**Specification**

**MARCH7 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q9H992</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MARCH7/Axotrophin 31-130/704
Epitope Specificity	31-130/704
Isotype	IgG
<b>Purity</b>	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 neutropoietic 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.

**MARCH7 Polyclonal Antibody - Additional Information**

**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 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=17393" target="\_blank">HGNC:17393</a>), AXOT, MARCH7, RNF177

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class

= "dilution\_IHC-P" > IHC-P~~N/A</span><br /><span class="dilution\_IHC-P">IHC-P~~N/A</span><br /><span class="dilution\_IF">IF~~1:50~200</span><br /><span class="dilution\_E">E~~N/A</span>

#### 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.

## MARCH7 Polyclonal Antibody - Protein Information

**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:<a href="http://www.uniprot.org/citations/16868077" target="\_blank">16868077</a>). May be involved in T-cell proliferation by regulating LIF secretion (By similarity). May play a role in lysosome homeostasis (PubMed:<a href="http://www.uniprot.org/citations/31270356" target="\_blank">31270356</a>). 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:<a href="http://www.uniprot.org/citations/37632749" target="\_blank">37632749</a>). Participates in the dopamine-mediated negative regulation of the NLRP3 inflammasome by promoting its ubiquitination and subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/25594175" target="\_blank">25594175</a>).

#### Cellular Location

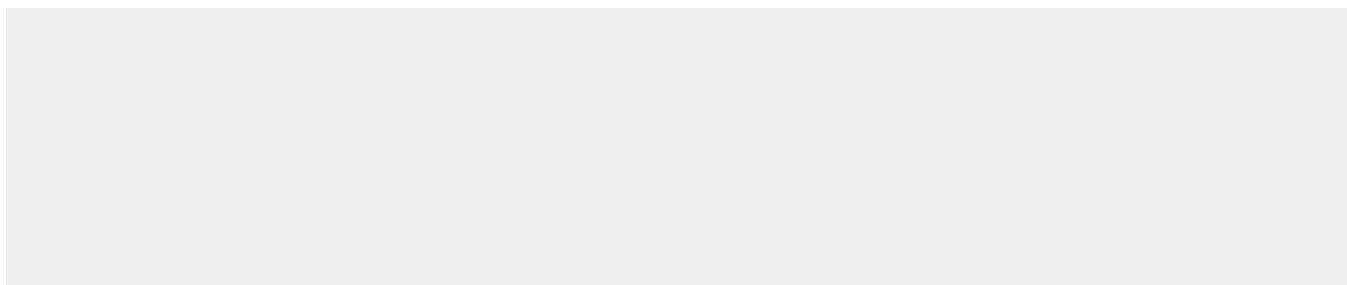
Cytoplasm.

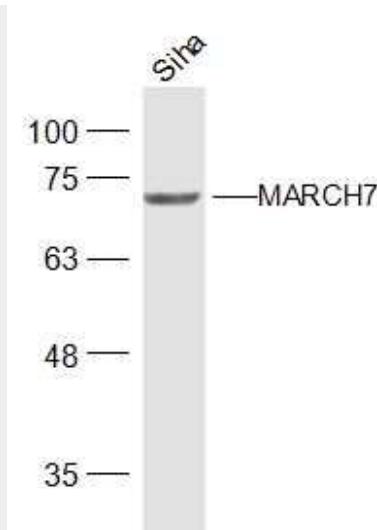
## MARCH7 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## MARCH7 Polyclonal Antibody - Images



**Sample:**

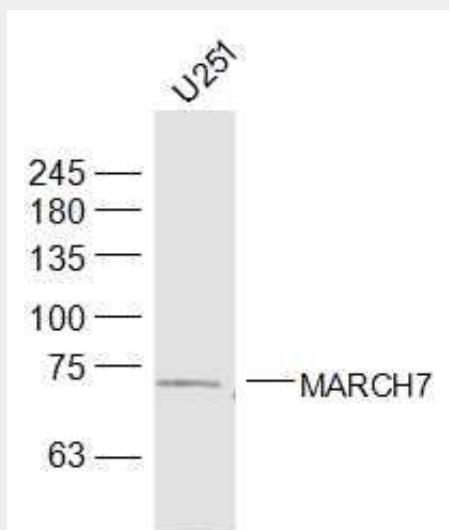
Siha(Human) Cell Lysate at 30 ug

Primary: Anti-MARCH7 (bs-9341R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

Observed band size: 73 kD

**Sample:**

Siha(Human) Cell Lysate at 30 ug

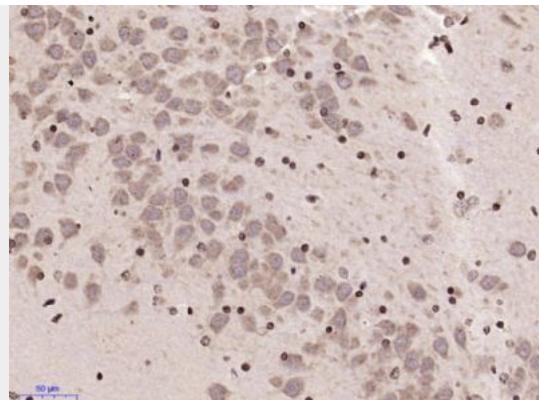
U251(Human) Cell Lysate at 30 ug

Primary: Anti-MARCH7 (bs-9341R) at 1/500 dilution

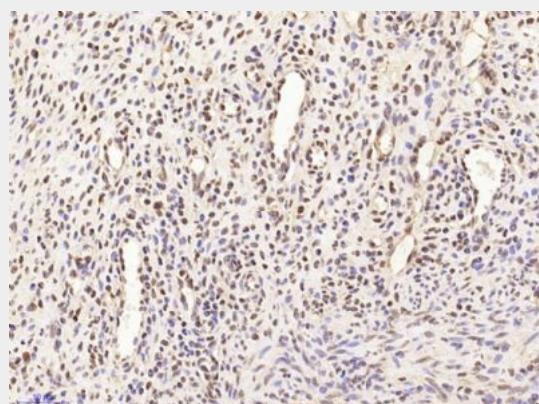
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78 kD

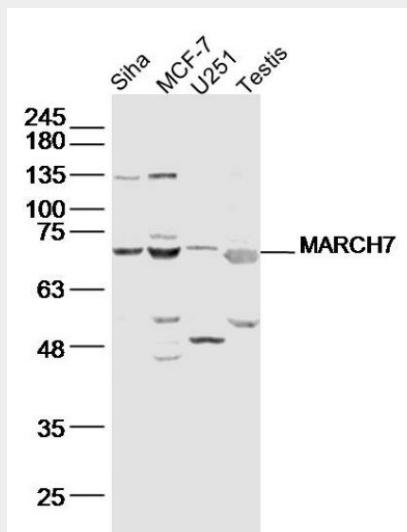
Observed band size: 73 kD



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 (bs-9341R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat uterus); 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 (bs-9341R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Sample:

Siha(human)cell Lysate at 30 ug

MCF-7(human)cell Lysate at 30 ug

U251(human)cell Lysate at 30 ug

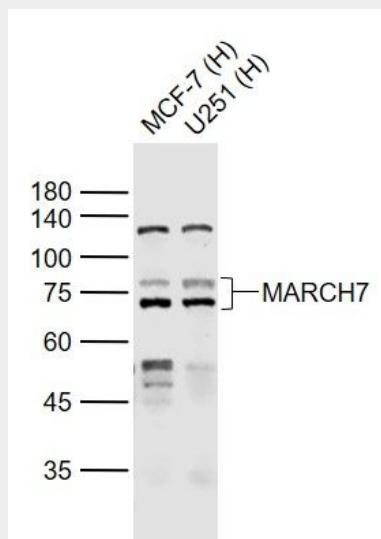
testis(rat) Lysate at 40 ug

Primary: Anti-MARCH7 (bs-9341R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78kD

Observed band size: 73 kD



Sample:

Lane 1: MCF-7 (Human) Cell Lysate at 30 ug

Lane 2: U251 (Human) Cell Lysate at 30 ug

Primary: Anti-MARCH7 (bs-9341R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 78/74 kD

Observed band size: 78/74 kD