

MARCH6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59229

Specification

MARCH6 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Physical State Immunogen Epitope Specificity Isotype Purity affinity purified by Protein A	WB, IHC-P, IHC-F, IF, E <u>O60337</u> Rat, Pig, Dog, Bovine Rabbit Polyclonal 103 KDa Liquid KLH conjugated synthetic peptide derived from human MARCH6 1-100/910 IgG
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi
SIMILARITY	Contains 1 RING-CH-type zinc finger.
SUBUNIT	Interacts with DIO2.
Post-translational modifications	Auto-ubiquitinated, which results in proteasomal degradation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

MARCH6 (Membrane associated RING finger protein 6) belongs to the MARCH family, which contains at least seven membrane associated RING-CH (MARCH)proteins. MARCH proteins are E3 ubiquitin ligases and are located to subcellular membranes.

MARCH6 Polyclonal Antibody - Additional Information

Gene ID 10299

Other Names

E3 ubiquitin-protein ligase MARCHF6, 2.3.2.27, Doa10 homolog, Membrane-associated RING finger protein 6, Membrane-associated RING-CH protein VI, MARCH-VI, Protein TEB-4, RING finger protein 176, RING-type E3 ubiquitin transferase MARCHF6, MARCHF6 (HGNC:30550)

Target/Specificity Present in brain (at protein level).



Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

MARCH6 Polyclonal Antibody - Protein Information

Name MARCHF6 (<u>HGNC:30550</u>)

Function

Endoplasmic reticulum membrane-associated E3 ubiquitin ligase that plays a critical role in mitigating endoplasmic reticulum stress, the regulation of cholesterol and lipid homeostasis, and ferroptosis (PubMed:<a href="http://www.uniprot.org/citations/25088257"

target="_blank">25088257, PubMed:35941365, PubMed:39216628). Acts as a pivotal component of both the Ac/N-degron pathway (targeting the N-terminal acetyl group of substrates) and the ER-associated protein degradationcytosol (ERAD-C) pathway (targeting misfolded substrates) (PubMed:30425097, PubMed:30425097, PubMed:35941365). For instance, mediates the degradation of Ac/N-degron-bearing proteins such as the G-protein regulator RGS2 and the lipid droplet protein PLIN2 (PubMed:30425097). For instance, mediates the degradation of Ac/N-degron-bearing proteins such as the G-protein regulator RGS2 and the lipid droplet protein PLIN2 (PubMed:30425097). Suppresses endoplasmic reticulum stress and ferroptosis through cytosolic POMC degradation (By similarity). Prevents ferroptosis by acting as a NADPH sensor during lipid peroxidation through its C- terminal regulatory region (PubMed:35941365). Facilitates also the degradation of selected endoplasmic reticulum proteins by associating with signal peptide peptidase for the turnover of endogenous tail- anchored proteins (PubMed:29519897). Promotes ubiquitination of DIO2, leading to its degradation (PubMed:19651899). By ubiquitinating and thereby modulating the stability of many proteins of the cholesterol pathway including SQLE, CYP51A1, CYP11A1 and HMGCR, acts as a crucial post-translational regulator of cholesterol synthesis (PubMed:24449766, PubMed:31904814, PubMed:31904814, PubMed:36958722).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location Present in brain (at protein level).

MARCH6 Polyclonal Antibody - Protocols



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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

MARCH6 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MARCH6) Polyclonal Antibody, Unconjugated (bs-9340R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MARCH6) Polyclonal Antibody, Unconjugated (bs-9340R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.