

MARCH6 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59229

Product Information

| | |
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| Application | WB, IHC-P, IHC-F, IF, E |
| Primary Accession | O60337 |
| Reactivity | Rat, Pig, Dog, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 102545 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human MARCH6 |
| Epitope Specificity | 1-100/910 |
| Isotype | IgG |
| Purity | affinity purified by Protein A |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Endoplasmic reticulum membrane; Multi pass membrane protein. |
| 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. |

Additional Information

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|---------------------------|---|
| 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=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000 |
| Format | 0.01M TBS(pH7.4) with 1% BSA, 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.

Protein Information

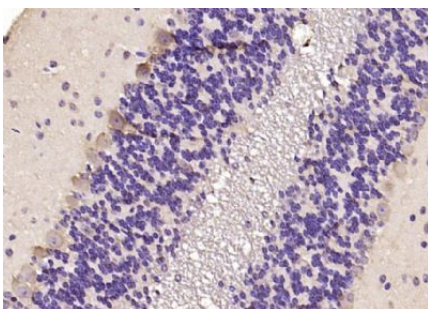
Name MARCHF6 ([HGNC:30550](#))

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:[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 degradation- cytosol (ERAD-C) pathway (targeting misfolded substrates) (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:[39216628](#)). 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:[36958722](#)).

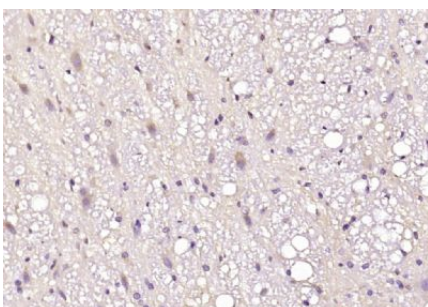
Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location Present in brain (at protein level).

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 (AP59229) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and 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 (AP59229) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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