

MATR3 Rabbit pAb

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Catalog # AP58288

Product Information

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|--------------------------------|---|
| Application | IHC-P, IHC-F, IF |
| Primary Accession | P43243 |
| Reactivity | Rat |
| Predicted | Human, Mouse, Chicken, Dog, Pig, Horse, Rabbit |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 94623 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human Matrin 3 |
| Epitope Specificity | 421-520/847 |
| 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 | Nucleus matrix. |
| SIMILARITY | Contains 1 matrin-type zinc finger.Contains 2 RRM (RNA recognition motif) domains. |
| SUBUNIT | Part of complex consisting of SFPQ, NONO and MATR3. Interacts with EIF2C1 and EIF2C2. |
| DISEASE | Defects in MATR3 are the cause of myopathy distal type 2 (MPD2) [MIM:606070]; also called vocal cord and pharyngeal dysfunction with distal myopathy (VCPDM). MPD2 is a muscular disorder characterized by distal weakness, with onset in hands and feet, associated with vocal cord and pharyngeal weakness causing a nasal voice and swallowing disorders. |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| Background Descriptions | Matrin 3 (MATR 3) is an internal nuclear matrix protein that may play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the SFPQ-NONO heteromer MATR 3 may play a role in nuclear retention of defective RNAs. MATR3 forms part of complex consisting of SFPQ, NONO and MATR3. The protein contains 1 matrin type zinc finger and 2 RRM (RNA recognition motif) domains. Two transcript variants encoding the same protein have been identified for this gene. |

Additional Information

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|--------------------|--|
| Gene ID | 9782 |
| Other Names | Matrin-3, MATR3, KIAA0723 |
| Dilution | 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

Name MATR3

Synonyms KIAA0723

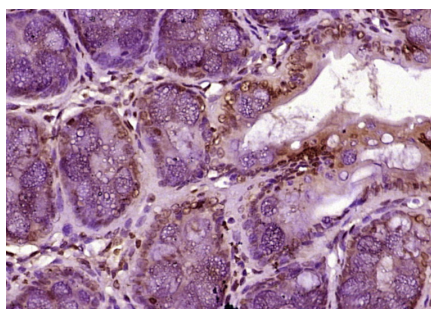
Function May play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the SFPQ-NONO heteromer may play a role in nuclear retention of defective RNAs. Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway (PubMed:[28712728](#)). Binds to N6-methyladenosine (m6A)-containing mRNAs and contributes to MYC stability by binding to m6A-containing MYC mRNAs (PubMed:[32245947](#)). May bind to specific miRNA hairpins (PubMed:[28431233](#)).

Cellular Location Nucleus matrix.

Background

Matrin 3 (MATR 3) is an internal nuclear matrix protein that may play a role in transcription or may interact with other nuclear matrix proteins to form the internal fibrogranular network. In association with the SFPQ-NONO heteromer MATR 3 may play a role in nuclear retention of defective RNAs. MATR3 forms part of complex consisting of SFPQ, NONO and MATR3. The protein contains 1 matrin type zinc finger and 2 RRM (RNA recognition motif) domains. Two transcript variants encoding the same protein have been identified for this gene.

Images



Paraformaldehyde-fixed, paraffin embedded (rat colon tissue); 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 (Matrin 3) Polyclonal Antibody, Unconjugated (AP58288) at 1:400 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'.