

# MATR3 Rabbit pAb

MATR3 Rabbit pAb  
Catalog # AP58288

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">P43243</a>
<b>Reactivity</b>	Rat
<b>Predicted</b>	Human, Mouse, Chicken, Dog, Pig, Horse, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	94623
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human Matrin 3
<b>Epitope Specificity</b>	421-520/847
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Nucleus matrix.
<b>SIMILARITY</b>	Contains 1 matrin-type zinc finger. Contains 2 RRM (RNA recognition motif) domains.
<b>SUBUNIT</b>	Part of complex consisting of SFPQ, NONO and MATR3. Interacts with EIF2C1 and EIF2C2.
<b>DISEASE</b>	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. This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Important Note</b>	
<b>Background Descriptions</b>	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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<b>Gene ID</b>	9782
<b>Other Names</b>	Matrin-3, MATR3, KIAA0723
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

<b>Storage</b>	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.
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## Protein Information

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<b>Name</b>	MATR3
<b>Synonyms</b>	KIAA0723
<b>Function</b>	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: <a href="#">28712728</a> ). Binds to N6-methyladenosine (m6A)-containing mRNAs and contributes to MYC stability by binding to m6A-containing MYC mRNAs (PubMed: <a href="#">32245947</a> ). May bind to specific miRNA hairpins (PubMed: <a href="#">28431233</a> ).
<b>Cellular Location</b>	Nucleus matrix.

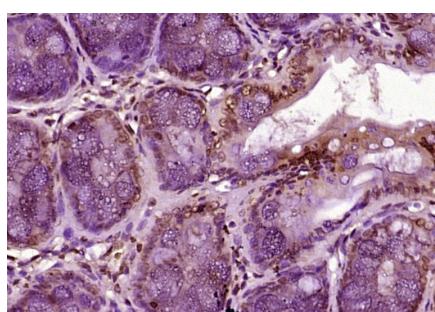
## Background

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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

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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'.