

**Matrin 3 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58288****Specification****Matrin 3 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">P43243</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	95 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Matrin 3
Epitope Specificity	421-520/847
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.
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.

**Matrin 3 Polyclonal Antibody - Additional Information**

**Gene ID** 9782

**Other Names**

Matrin-3, MATR3, KIAA0723

**Dilution**

IHC-P~~N/A  
IHC-F~~N/A  
IF~~1:50~200  
E~~N/A

**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.

**Matrin 3 Polyclonal Antibody - 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](http://www.uniprot.org/citations/28712728)). Binds to N6-methyladenosine (m6A)-containing mRNAs and contributes to MYC stability by binding to m6A-containing MYC mRNAs (PubMed: [32245947](http://www.uniprot.org/citations/32245947)). May bind to specific miRNA hairpins (PubMed: [28431233](http://www.uniprot.org/citations/28431233)).

**Cellular Location**

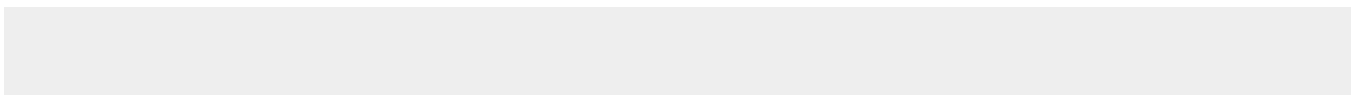
Nucleus matrix.

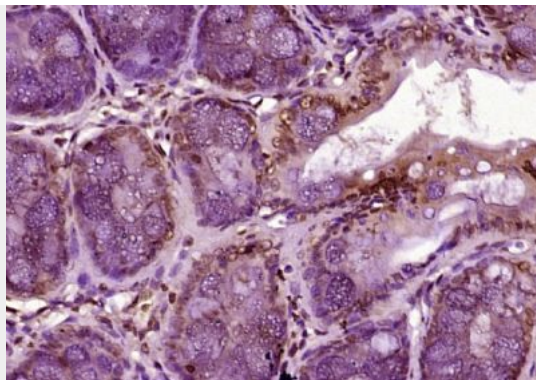
**Matrin 3 Polyclonal Antibody - Protocols**

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](#)

**Matrin 3 Polyclonal Antibody - 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 (bs-5141R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.