

MATR3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11817**Specification**

MATR3 antibody - N-terminal region - Product Information

Application	WB, IHC
Primary Accession	P43243
Other Accession	NM_018834 , NP_061322
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93kDa kDa

MATR3 antibody - N-terminal region - Additional Information**Gene ID** 9782

Alias Symbol	MPD2, VCPDM
Other Names	
Matrin-3, MATR3, KIAA0723	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 100 ul of distilled water. Final anti-MATR3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

MATR3 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

MATR3 antibody - N-terminal region - 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

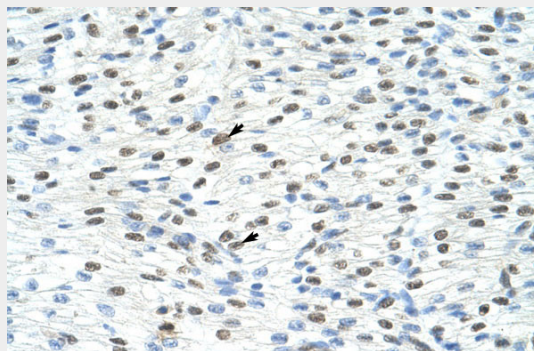
Nucleus matrix.

MATR3 antibody - N-terminal region - Protocols

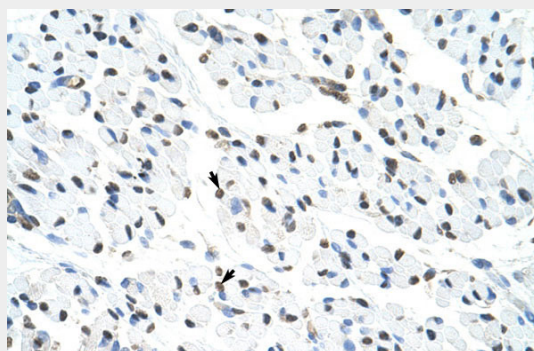
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

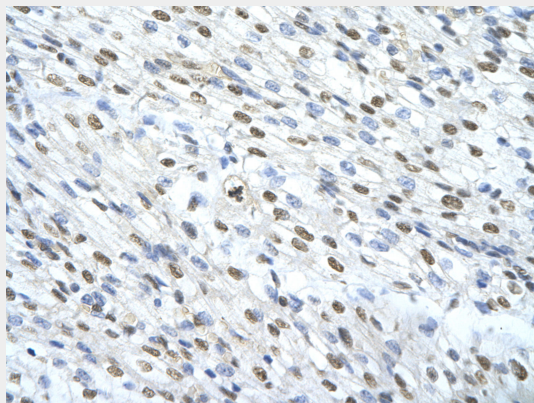
MATR3 antibody - N-terminal region - Images



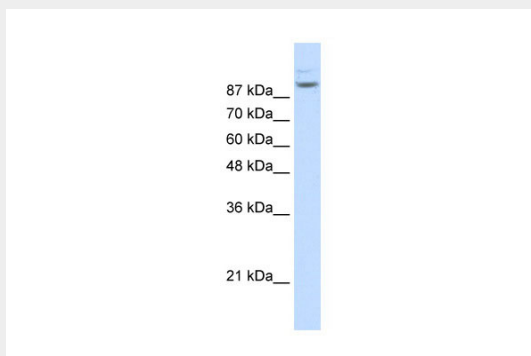
Rabbit Anti-MATR3 Antibody
Paraffin Embedded Tissue: Human Heart
Cellular Data: Myocardial cells
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X



Rabbit Anti-MATR3 Antibody
Paraffin Embedded Tissue: Human Muscle
Cellular Data: Skeletal muscle cells
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X



Rabbit Anti-MATR3 Antibody
Paraffin Embedded Tissue: Human cardiac cell
Cellular Data: Epithelial cells of renal tubule
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X



WB Suggested Anti-MATR3 Antibody Titration: 1.25µg/ml
Positive Control: Jurkat cell lysate
MATR3 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells

MATR3 antibody - N-terminal region - References

Beausoleil, S.A., (2004) Proc. Natl. Acad. Sci. U.S.A. 101 (33), 12130-12135
Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications: Valencia, C. A., Ju, W. & Liu, R. Matrin 3 is a Ca²⁺/calmodulin-binding protein cleaved by caspases. Biochem. Biophys. Res. Commun. 361, 281-6 (2007). WB, Human, Bovine, Rat, Dog, Pig, H, Rabbit, Guinea pig, Mouse17658460
Kula, A. et al. Characterization of the HIV-1 RNA associated proteome identifies Matrin 3 as a nuclear cofactor of Rev function. Retrovirology 8, 60 (2011). WB, Human, Bovine, Rat, Dog, Pig, H, Rabbit, Guinea pig, Mouse21771346
Kula, A., Gharu, L. & Marcello, A. HIV-1 pre-mRNA commitment to Rev mediated export through PSF and Matrin 3. Virology 435, 329-40 (2013). WB, Human, Bovine, Rat, Dog, Pig, H, Rabbit, Guinea pig, Mouse23158102