

# MDA5 Recombinant Rabbit Monoclonal Antibody (33H12L34)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotope	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	33H12L34
Conjugate	Unconjugated
Immunogen	A recombinant protein corresponding to amino acids 883-1025 of Q9BYX4.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532316

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	4-6 µg/mL	1 Publication
Western Blot (WB)	✓	4-6 µg/mL	1 Publication
Immunofluorescence (IF)	✓	4-6 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:20	

## Product Specific Information

This antibody is predicted to react with Rhesus monkey, mouse, rat, porcine and bovine based on sequence homology.

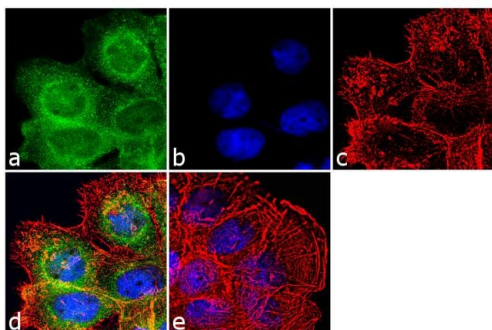
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

## Product Images For MDA5 Recombinant Rabbit Monoclonal Antibody (33H12L34)

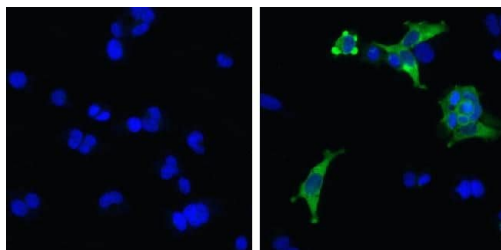
### MDA5 Antibody (700360) in IF

Immunofluorescence analysis of MDA5 was done on 70% confluent log phase A431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with MDA5 (33H12L34), Recombinant Rabbit Monoclonal Antibody (Product # 700360) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic and nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



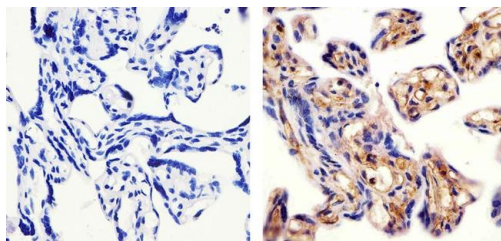
### MDA5 Antibody (700360) in IF

Immunofluorescent analysis of MDA5 in MDA5-transfected 293 cells (right) and untransfected cells (left) using a MDA5 recombinant rabbit monoclonal antibody (Product # 700360) at a dilution of 5 µg/mL followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody at a dilution of 1:1000 (green) and nuclei stained using Hoescht (blue).



### MDA5 Antibody (700360) in IHC (P)

Immunohistochemistry analysis of MDA5 showing staining in the cytoplasm of paraffin-embedded human placenta tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a Anti- MDA5 Monoclonal Antibody (Product # 700360) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



[View more figures on thermofisher.com](https://www.thermofisher.com)

## 2 References

### Immunocytochemistry (1)

PLoS pathogens

#### Rabies Virus Infection Induces the Formation of Stress Granules Closely Connected to the Viral Factories.

"700360 was used in immunocytochemistry to report that rabies virus induces stress granule formation"

Authors: Nikolic J,Civas A,Lama Z,Lagaudrière-Gesbert C,Blondel D

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

### Western Blot (1)

Hepatology (Baltimore, Md.)

#### HepG2 cells mount an effective antiviral interferon-lambda based innate immune response to hepatitis C virus infection.

"700360 was used in western blot to study the IFN-lambda inate immune response of HepG2 cells in response to HCV infection"

Authors: Israelow B,Narbus CM,Sourisseau M,Evans MJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

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