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# **RIG-I** Polyclonal Antibody

Unconjugated

Liquid

PBS

2 mg/mL

the central region of human RIG-I

Ammonium sulfate precipitation,

-20° C, Avoid Freeze/Thaw Cycles

Size-exclusion - Dialysis

0.09% sodium azide

**Catalog Number** PA5-11727

Details

Host/Isotope

Immunogen

Conjugate

Concentration

Storage buffer

Storage Conditions

Purification

Contains

Form

Size

Class

Туре

		Product data sheet
	Species Reactivity	
400 µL	Species reactivity	Human
Rabbit / IgG	Tested Applications	Dilution *
Polyclonal	Western Blot (WB)	1:1,000
Antibody	Immunocytochemistry (ICC/IF)	1:200
KLH conjugated synthetic peptide between 585-614 amino acids from	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

## **Background/Target Information**

Retinoic acid-inducible gene I, RIG-I is a pattern recognition receptor (PRR) involved in the recognition of viral dsRNA. Along with MDA5, RIG-I detects viral dsRNA and activates the innate immune response. Both MDA5 and RIG-I are RNA helicases and they perform overlapping as well as distinct roles. RIG-I is activated by dsRNAs without a 5'-triphosphate end and short dsRNAs, whereas MDA5 is activated by long dsRNAs. Once activated, both proteins signal through IPS-1 activating transcription factors NF-kappaB and IRF-3 (1) and ultimately activating apoptosis, cytokine signaling, and inflammation. RIG-I is essential for signaling by influenza A, influenza B, human respiratory syncytial virus (3), paromyxoviruses, Japanese encephalitis virus, and West Nile virus. MicroRNA-146a has been implicated in feedback inhibition of RIG-I-dependant antiviral response by negatively regulating RIG-I targets TRAF6, IRAK1, and IRAK2. Recent evidence has implicated RIG-I in the detection of cytosolic DNA through RNA polymerase III activity.

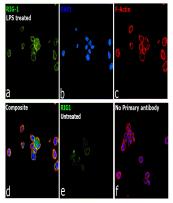
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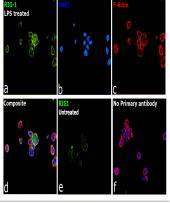


### **Product Images For RIG-I Polyclonal Antibody**



#### RIG-I Antibody (PA5-11727) in ICC/IF

Immunofluorescence analysis of Probable ATP-dependent RNA helicase DDX58 was performed using 70% confluent log phase THP-1 cells and THP-1 cells treated with 1 µg/mL of LPS for 18 h. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton<sup>™</sup> X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with RIG-I Polyclonal Antibody (Product # PA5-11727) at 1:200 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2500), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong<sup>™</sup> Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing Cytosolic localization. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



#### RIG-I Antibody (PA5-11727)

Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis using RIG-I Polyclonal Antibody (Product # PA5-11727), shows increased expression of protein in THP-1 cell line upon treatment with LPS. {TM}

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- 80	RIG-I Antibody (PA5-11727) in WB
A AVERAGE AND A	Western blot analysis using a RIG-I polyclonal antibody (Product # PA5-11727) in 293 cell lysates (35 µg per lane).
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99	
72	
12	
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55	

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