

Anti-RIG-1 DDX58 Antibody

Catalog Number: A00244

About DDX58

The innate immune system detects viral infection by recognizing various viral components and triggers antiviral responses. Like the toll-like receptor 3 (TLR3), the cytoplasmic helicase retinoic acid inducible gene protein 1 (RIG-1) recognizes double-stranded (ds) RNA, a molecular pattern associated with viral infection. Unlike TLR3 however, RIG-1 activates the kinases TBK1 and IKKepsilon through the adaptor protein IPS-1. These kinases then phosphorylate the transcription factors IRF-3 and IRF-7 which are essential for the expression of type-I interferons. RIG-1 is required for the production of interferons in response to RNA viruses including paramyxoviruses, influenza virus, and Japanese encephalitis virus.

Overview

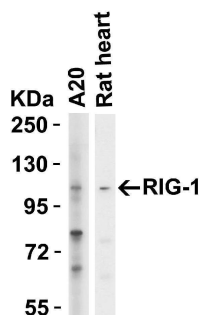
Product Name	Anti-RIG-1 DDX58 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RIG-1 DDX58 Antibody (Catalog # A00244). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	RIG-1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	RIG-1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O95786

Technical Details

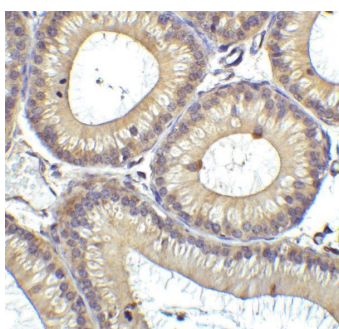
Immunogen	RIG-1 antibody was raised against human GST-tagged RIG-1 protein.
Predicted Reactive Species	Bovine, Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	RIG-1 Antibody is Protein A purified.
Suggested Dilutions	RIG-1 antibody can be used for the detection of RIG-1 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. Antibody validated: Western Blot in mouse samples and Immunohistochemistry in human and rat

samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

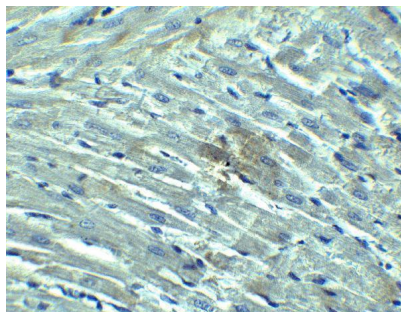
Anti-RIG-1 DDX58 Antibody (A00244) Images



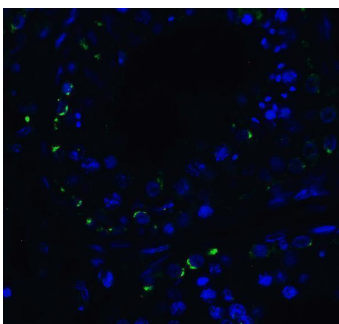
Western blot analysis of RIG-1 in Lane 1) A20 cell lysate and Lane 2) Rat heart tissue lysate with RIG-1 antibody at 2 ug/mL.



Immunohistochemistry of RIG-1 in mouse testis tissue with RIG-1 Antibody at 1 ug/mL.

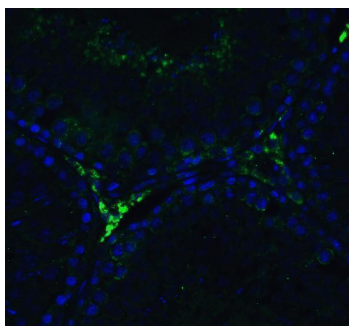


Immunohistochemistry of RIG-1 in rat heart tissue with RIG-1 Antibody at 10 ug/mL.

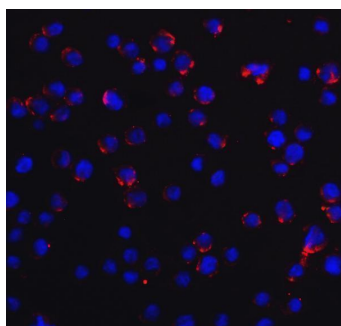
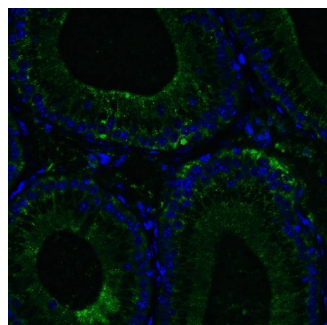


Immunofluorescence of RIG-1 in human testis tissue with RIG-1 Antibody at 20 ug/mL.

Immunofluorescence of RIG-1 in rat testis tissue with RIG-1 Antibody at 20 ug/mL.



Immunofluorescence of RIG-1 in mouse testis tissue with RIG-1 Antibody at 20 ug/mL.



Immunofluorescence of RIG-1 in MCF7 cells with RIG-1 Antibody at 20 ug/mL.

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Anti-RIG-1 DDX58 Antibody

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