

## Purified anti-RIG-1 Antibody

<b>Catalog# / Size</b>	635201 / 25 µg
<b>Clone</b>	SS1A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Retinoic acid-inducible gene 1 protein, DEAD-box protein 58, DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	RIG-1/DDX58(Retinoic acid-inducible gene 1 protein/ DEAD-box protein 58) is an RNA helicase that belongs to the DEAD/H box. Contains 2 CARD domains, a helicase ATP-binding domain and a helicase C-terminal domain. Predicted molecular weight approximately 107 kD. RIG-1 has an essential function in double-stranded RNA-induced innate antiviral responses. RIG-1 and MDA5 (melanoma differentiation-associated gene 5) are key intracellular receptors that sense intracellular viral infection and trigger a signal for innate antiviral responses including the production of type I IFN. Clone SS1A has been shown to be useful for western blotting of the mouse RIG-1 protein.

### Product Details

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<b>Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Peptide-KLH, C-terminal end of murine RIG-1
<b>Formulation</b>	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	Upon receipt, store undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">WB - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 1 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Product Citations</b>	1. Wang W, <i>et al.</i> 2016. Proc Natl Acad Sci U S A. 113: 9581 - 9586. <a href="#">PubMed</a>
<b>RRID</b>	AB_940599 (BioLegend Cat. No. 635201)

### Antigen Details

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<b>Structure</b>	RIG-1 is an RNA helicase that belongs to the DEAD/H box. Contains 2 CARD domains, a helicase ATP-binding domain and a helicase C-terminal domain. Predicted molecular weight approximately 107 kD.
<b>Distribution</b>	Cytoplasm.
<b>Function</b>	Involved in innate immune defense against viruses. RIG-1 has an essential function in double-stranded RNA-induced innate antiviral responses. RIG-1 is one of the key intracellular receptors that sense intracellular viral infection and trigger a signal for
<b>Interaction</b>	Cardif

**Biology Area**

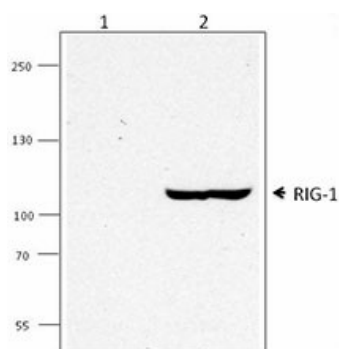
Cell Biology, Transcription Factors

**Antigen References**

1. Imaizumi T, et al. 2002. *Biochem. Biophys. Res. Commun.* 292:274
2. Kato H, et al. 2006. *Nature* 441:101
3. Kato H, et al. 2005. *Immunity* 23:19

**Gene ID**[109906](#)**Related Protocols**[Western Blotting Protocol](#)**Other Formats**

Purified anti-RIG-1

**Product Data**

Western blot analysis of extracts from Raw 264.7 cells starved for 20h (lane 1) and starved for 20h and treated with 1 µg/ml LPS for 9h (lane 2) using anti-RIG-1 antibody (clone SS1A).

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