

For Research Use Only

# RIG-1/DDX58 Recombinant antibody

Catalog Number:84861-5-RR



## Basic Information

<b>Catalog Number:</b> 84861-5-RR	<b>GenBank Accession Number:</b> BC132786	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23586	<b>CloneNo.:</b> 242424E7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95786	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	
<b>Immunogen Catalog Number:</b> AG18585	<b>Calculated MW:</b> 925 aa, 106 kDa	
	<b>Observed MW:</b> 101~106 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : A431 cells, THP-1 cells, HeLa cells, MCF-7 cells IF/ICC : A431 cells,
<b>Species Specificity:</b> human	

## Background Information

DDX58, also named as RIG-1, belongs to the helicase family. It is involved in innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, triggers a transduction cascade involving MAVS/IPS1, which results in the activation of NF-kappa-B, IRF3 and IRF7 and the induction of the expression of antiviral cytokines such as IFN-beta and RANTES (CCL5). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). It is essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV. The antibody is specific to DDX58.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

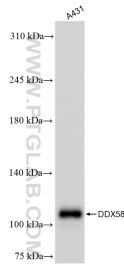
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

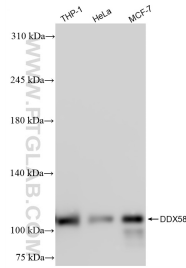
E: proteintech@ptglab.com  
W: ptglab.com

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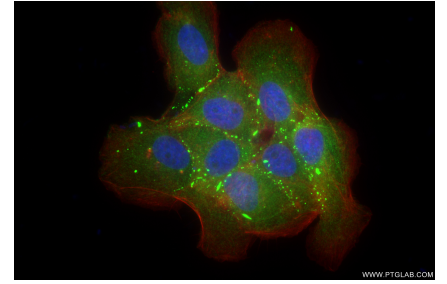
## Selected Validation Data



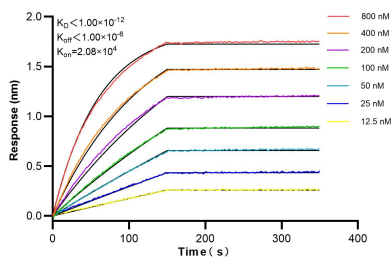
A431 cells were subjected to SDS PAGE followed by western blot with 84861-5-RR (RIG-1/DDX58 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 84861-5-RR (RIG-1/DDX58 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using RIG-1/DDX58 antibody (84861-5-RR, Clone: 242424E7) at dilution of 1:400 and Coralite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 84861-5-RR against Human RIG-1/DDX58 were performed. The affinity constant is below 1 pM.