

For Research Use Only

# RIG-1/DDX58 Monoclonal antibody

Catalog Number: 67556-1-Ig 6 Publications



## Basic Information

|                                                                                                                           |                                                                |                                                                          |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>67556-1-Ig                                                                                      | <b>GenBank Accession Number:</b><br>BC132786                   | <b>Purification Method:</b><br>Protein G purification                    |
| <b>Size:</b><br>150ul , Concentration: 2000 ug/ml by Nanodrop and 940 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>23586                                 | <b>CloneNo.:</b><br>3B10F5                                               |
| <b>Source:</b><br>Mouse                                                                                                   | <b>UNIPROT ID:</b><br>O95786                                   | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IF/ICC 1:200-1:800 |
| <b>Isotype:</b><br>IgG1                                                                                                   | <b>Full Name:</b><br>DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 |                                                                          |
| <b>Immunogen Catalog Number:</b><br>AG18591                                                                               | <b>Calculated MW:</b><br>925 aa, 106 kDa                       |                                                                          |
|                                                                                                                           | <b>Observed MW:</b><br>101/106 kDa                             |                                                                          |

## Applications

|                                                  |                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IF/ICC, ELISA | <b>Positive Controls:</b>                                                          |
| <b>Cited Applications:</b><br>WB, IF             | <b>WB :</b> A-253 cells, SW 1990 cells, MDA-MB-231 cells, SCaBER cells, HeLa cells |
| <b>Species Specificity:</b><br>human             | <b>IF/ICC :</b> HepG2 cells,                                                       |
| <b>Cited Species:</b><br>human, duck             |                                                                                    |

## 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, which has two isoform with the MW of 106 and 101 kDa.

## Notable Publications

| Author       | Pubmed ID | Journal       | Application |
|--------------|-----------|---------------|-------------|
| Qingxiao Zhu | 39842367  | Vet Microbiol |             |
| Weiran Wang  | 39644722  | Poult Sci     | WB          |
| Jingyan Shen | 38772149  | Redox Biol    | WB          |

## Storage

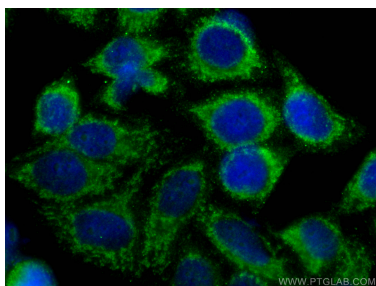
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol  
**Aliquoting is unnecessary for -20°C storage**

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

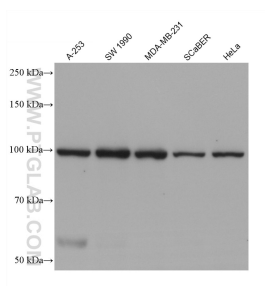
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RIG-1/DDX58 antibody (67556-1-Ig, Clone: 3B10F5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67556-1-Ig (RIG-1/DDX58 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.