

CoraLite® Plus 488-conjugated RIG-1/DDX58 Monoclonal antibody

Catalog Number: **CL488-67556**

Basic Information

Catalog Number:

CL488-67556

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG18591

GenBank Accession Number:

BC132786

GeneID (NCBI):

23586

UNIPROT ID:

O95786

Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 58

Calculated MW:

925 aa, 106 kDa

Observed MW:

101/106 kDa

Purification Method:

Protein G purification

CloneNo.:

3B10F5

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

Human, mouse, rat

Positive Controls:

IF/ICC : HepG2 cells,

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 isoforms with the MW of 106 and 101 kDa.

Storage

Storage:

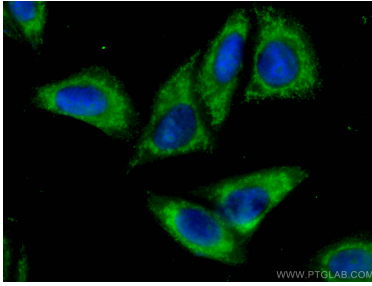
Store at -20°C. Avoid exposure to light.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Coralite® Plus 488-conjugated RIG-1/DDX58 antibody (CL488-67556, Clone: 3B10F5) at dilution of 1:100.