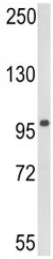
DDX58 Antibody / RIG-I (F46992)

Catalog No.	Formulation	Size
F46992-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F46992-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O95786
Applications	Western Blot : 1:1000
Limitations	This DDX58 antibody is available for research use only.



Western blot analysis of DDX58 in human 293 lysate. Expected molecular weight: 106-115 kDa.

Description

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases which are implicated in a number of cellular processes involving RNA binding and alteration of RNA secondary structure. RIG-I contains RNA helicase-DEAD box protein motifs and a caspase recruitment domain (CARD). It is involved in viral double-stranded (ds) RNA recognition and the innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, RIG-I/DDX58 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). This protein is essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV.

Application Notes

Titration of the DDX58 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 585-614 from the human protein was used as the immunogen for this DDX58 antibody.

Storage

Aliquot the DDX58 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.