Product Name: KD-Validated RNA Sensor RIG-I Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00004
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 106.6kDa

Antigen Information

Gene Name	RIGI
Alternative Names	RIGI; RNA Sensor RIG-I; RIG-I; Antiviral Innate Immune Response Receptor RIG-I; RIG-1; DDX58; RIG1; DEAD (Asp-Glu-Ala-Asp) Box Polypeptide 58; Retinoic Acid-Inducible Gene 1 Protein; Retinoic Acid-Inducible Gene I Protein; ATP-Dependent RNA Helicase DDX58; DExD/H-Box Helicase 58; DEAD Box Protein 58; RNA Helicase RIG-I; DKFZp434J1111; FLJ13599; RLR-1; DEAD/H (Asp-Glu-Ala-Asp/His) Box Polypeptide; Probable ATP-Dependent RNA Helicase DDX58; Retinoic Acid Inducible Gene I; RIG-I-Like Receptor 1; EC 3.6.4.13; SGMRT2
Gene ID	23586.0
SwissProt ID	O95786
Immunogen	A synthesized peptide derived from human DDX58

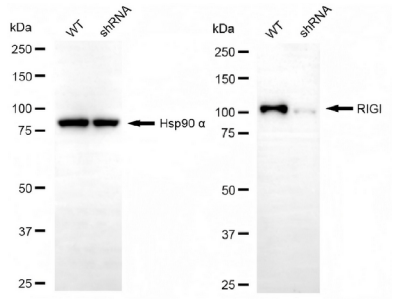
Background

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. This gene encodes a protein containing RNA helicase-DEAD box protein motifs and a caspase recruitment domain (CARD). It is involved in viral double-stranded (ds) RNA recognition and the regulation of the antiviral innate immune response. Mutations in this gene are associated with Singleton-Merten syndrome 2. [provided by RefSeq, Aug 2020]

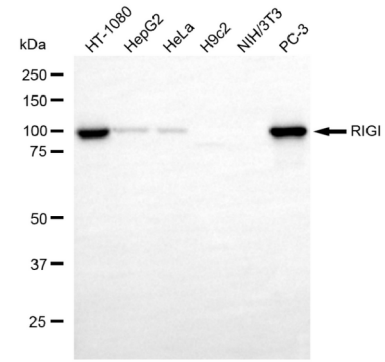
Research Area

Epigenetics and Nuclear Signaling

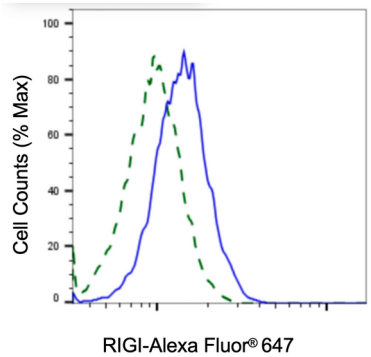
Image Data



Western blotting analysis using RIGI antibody (KVAb00004). RIGI expression in wild-type (WT) and RIGI shRNA knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RIGI antibody (KVAb00004, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using RIGI antibody (KVAb00004). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RIGI antibody (KVAb00004, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of RIGI knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HAP1 cells were stained with RIGI antibody (KVAb00004, 1:2,000) and analyzed using BD flow cytometer.