

DDX58 / RIG-1 / RIG-I Antibody
Goat Polyclonal Antibody
Catalog # ALS12956**Specification**

DDX58 / RIG-1 / RIG-I Antibody - Product Information

Application	IHC-P
Primary Accession	O95786
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	107kDa KDa
Dilution	IHC-P ~ N/A

DDX58 / RIG-1 / RIG-I Antibody - Additional Information**Gene ID** 23586**Other Names**

Probable ATP-dependent RNA helicase DDX58, 3.6.4.13, DEAD box protein 58, RIG-I-like receptor 1, RLR-1, Retinoic acid-inducible gene 1 protein, RIG-1, Retinoic acid-inducible gene I protein, RIG-I, DDX58

Target/Specificity

Human DDX58.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

DDX58 / RIG-1 / RIG-I Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DDX58 / RIG-1 / RIG-I Antibody - Protein Information**Name** RIGI ([HGNC:19102](#))**Synonyms** DDX58**Function**

Innate immune receptor that senses cytoplasmic viral nucleic acids and activates a downstream signaling cascade leading to the production of type I interferons and pro-inflammatory cytokines (PubMed: 15208624, PubMed: 15708988, PubMed: 16125763, PubMed: 16127453, PubMed: 16153868, PubMed: 17190814).

Page 2/4

<http://www.uniprot.org/citations/21884169>). Detects and binds to SARS-CoV-2 RNAs which is inhibited by m6A RNA modifications (Ref.73). Also involved in antiviral signaling in response to viruses containing a dsDNA genome such as Epstein-Barr virus (EBV) (PubMed: <http://www.uniprot.org/citations/19631370>). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). May play important roles in granulocyte production and differentiation, bacterial phagocytosis and in the regulation of cell migration.

Cellular Location

Cytoplasm. Cell projection, ruffle membrane. Cytoplasm, cytoskeleton. Cell junction, tight junction
Note=Colocalized with TRIM25 at cytoplasmic perinuclear bodies Associated with the actin cytoskeleton at membrane ruffles

Tissue Location

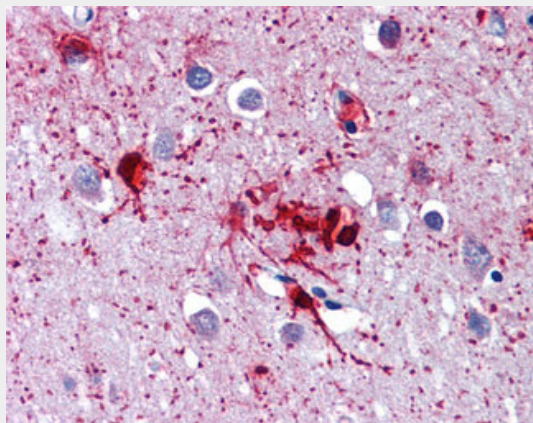
Present in vascular smooth cells (at protein level).

DDX58 / RIG-1 / RIG-I Antibody - Protocols

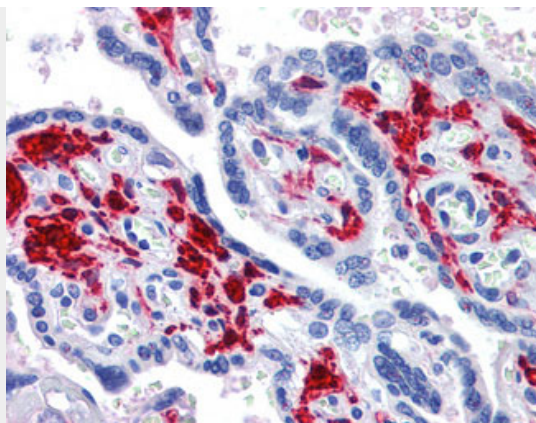
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

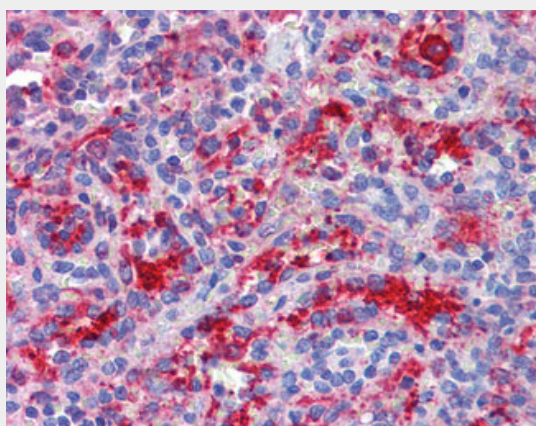
DDX58 / RIG-1 / RIG-I Antibody - Images



Anti-DDX58 antibody IHC of human brain, cortex.



Anti-DDX58 antibody IHC of human placenta.



Anti-DDX58 antibody IHC of human spleen.

DDX58 / RIG-1 / RIG-I Antibody - Background

Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and plays a major role in sensing viral infection and in the activation of a cascade of antiviral responses including the induction of type I interferons and proinflammatory cytokines. Its ligands include: 5'-triphosphorylated ssRNA and dsRNA and short dsRNA (

DDX58 / RIG-1 / RIG-I Antibody - References

Sun Y.-W.,et al.Thesis (1997), Shanghai Institute of Hematology, China.
Imaizumi T.,et al.Biochem. Biophys. Res. Commun. 292:274-279(2002).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).