

## Rabbit anti-Human DDX58 Polyclonal Antibody | anti-DDX58 antibody

DDX58 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                           |
|-----------|--------|------------|--------------------------------------------------------|
| AAA304040 | Rabbit | Human      | Immunofluorescence, Immunohistochemistry, Western Blot |

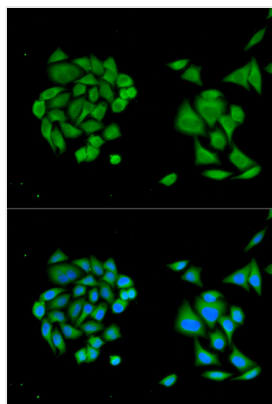
### PRODUCT SYNONYMS

DDX58; Polyclonal Antibody; DDX58 Antibody; DKFZp434J1111; DKFZp686N19181; FLJ13599; RIG-I; anti-DDX58 antibody

### PRODUCT SPECIFICATIONS

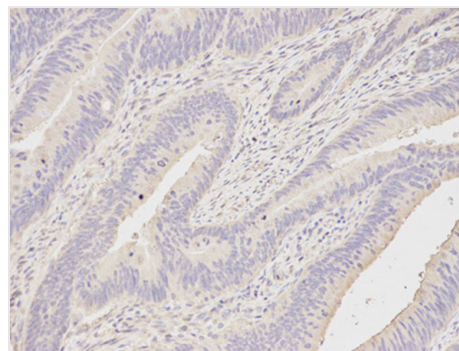
|                                                 |                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                   |
| Specificity                                     | The antibody detects endogenous level of total DDX58 protein.                                                                                                |
| Purity/Purification                             | Antibodies were purified by affinity purification using immunogen.                                                                                           |
| Form/Format                                     | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1.0 mg/ml (varies by lot)                                                                                                                                    |
| Sequence Length                                 | 925                                                                                                                                                          |
| Applicable Applications for anti-DDX58 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                       |
| Immunogen Type                                  | Peptide                                                                                                                                                      |
| Immunogen Description                           | A synthetic peptide of human DDX58.                                                                                                                          |
| Target Name                                     | DDX58                                                                                                                                                        |
| Preparation and Storage                         | Store at -20 degree C                                                                                                                                        |

### IMAGES



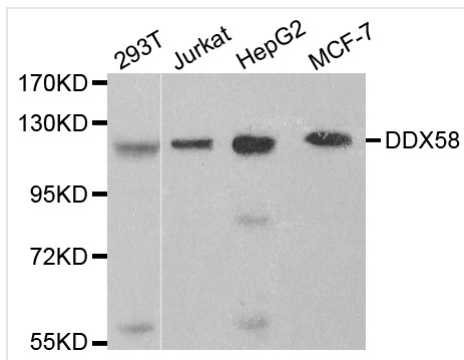
#### IF (Immunofluorescence)

Immunofluorescence analysis of MCF-7 cell using DDX58 antibody. Blue: DAPI for nuclear staining.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human rectal cancer using DDX58 antibody at dilution of 1:200 (200x lens).



**WB (Western Blot)**  
Western blot analysis of extracts of various cell lines, using DDX58 antibody.

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-DDX58 antibody</b> | <p>Antiviral innate immunity depends on the combination of parallel pathways triggered by virus detecting proteins in the Toll-like receptor (TLR) family and RNA helicases, such as Rig-I (retinoic acid-inducible gene I) and MDA-5 (melanoma differentiation-associated antigen 5), which promote the transcription of type I interferons (IFN) and antiviral enzymes (1-3). TLRs and helicase proteins contain sites that recognize the molecular patterns of different virus types, including DNA, single-stranded RNA (ssRNA), double-stranded RNA (dsRNA), and glycoproteins. These antiviral proteins are found in different cell compartments; TLRs (i.e. TLR3, TLR7, TLR8, and TLR9) are expressed on endosomal membranes and helicases are localized to the cytoplasm. Rig-I expression is induced by retinoic acid, LPS, IFN, and viral infection (4,5). Both Rig-I and MDA-5 share a DExD/H-box helicase domain that detects viral dsRNA and two amino-terminal caspase recruitment domains (CARD) that are required for triggering downstream signaling (4-7). Rig-I binds both dsRNA and viral ssRNA that contains a 5'-triphosphate end not seen in host RNA (8,9). Though structurally related, Rig-I and MDA-5 detect a distinct set of viruses (10,11). The CARD domain of the helicases, which is sufficient to generate signaling and IFN production, is recruited to the CARD domain of the MAVS/VISA/Cardif/IPS-1 mitochondrial protein, which triggers activation of NF-kB, TBK1/IKKeta, and IRF-3/IRF-7 (12-15).</p> |
| <b>Product Categories/Family for anti-DDX58 antibody</b>   | <a href="#">Total protein Ab</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 27881482                                  |
| NCBI GeneID                      | 23586                                     |
| NCBI Accession #                 | NP_055129.2                               |
| NCBI GenBank Nucleotide #        | NM_014314.3                               |
| UniProt Accession #              | O95786; Q5HYE1; Q5VYT1; Q9NT04; A2RU81    |
| Molecular Weight                 | 101,377 Da                                |
| NCBI Official Full Name          | probable ATP-dependent RNA helicase DDX58 |
| NCBI Official Synonym Full Names | DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 |
| NCBI Official Symbol             | DDX58                                     |
| NCBI Official Synonym Symbols    | RIGI; RIG-I; RLR-1; SGMRT2                |
| NCBI Protein Information         | probable ATP-dependent RNA helicase DDX58 |
| UniProt Protein Name             | Probable ATP-dependent RNA helicase DDX58 |
| UniProt Gene Name                | <b>DDX58</b>                              |
| UniProt Synonym Gene Names       | RLR-1; RIG-1; RIG-I                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ddx58-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/304040>