**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for CF506141

## DDX58 Mouse Monoclonal Antibody [Clone ID: OTI6C1]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI6C1 |
| **Applications:** | IF, IHC, WB |
| **Recommended Dilution:** | WB 1:4000, IHC 1:150, IF 1:100 |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human DDX58(NP_055129) produced in HEK293T cell. |
| **Formulation:** | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| **Reconstitution Method:** | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 106.4 kDa |
| **Gene Name:** | DExD/H-box helicase 58 |
| **Database Link:** | NP_055129<br>Entrez Gene 23586 Human<br>O95786 |

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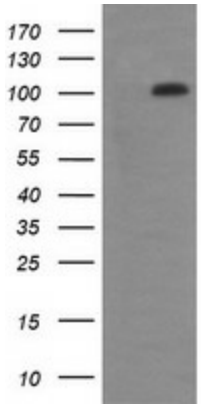
**Background:** DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases which are implicated in a number of cellular processes involving RNA binding and alteration of RNA secondary structure. This gene encodes a protein containing RNA helicase-DEAD box protein motifs and a caspase recruitment domain (CARD). It is involved in viral double-stranded (ds) RNA recognition and the regulation of immune response. [provided by RefSeq, Jul 2008]

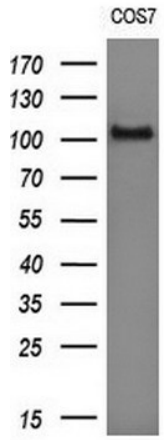
**Synonyms:** RIG-I; RIGI; RLR-1

**Protein Pathways:** Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway

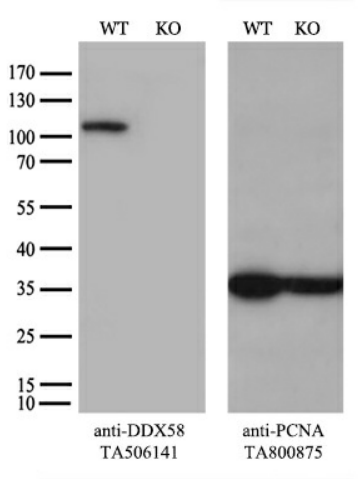
## Product images:



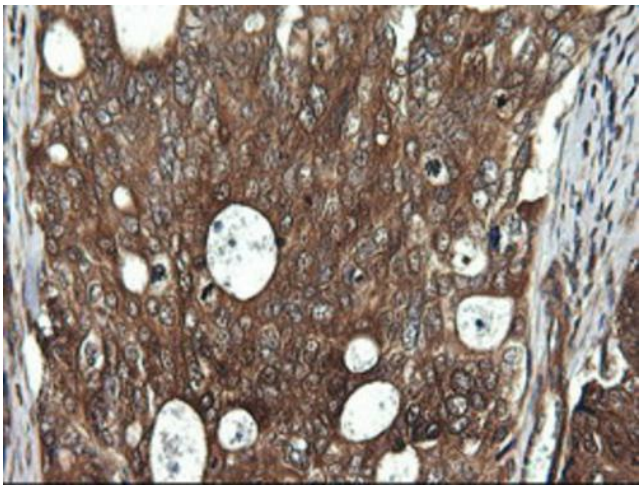

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DDX58 (Cat# [RC217615], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DDX58(Cat# [TA506141]). Positive lysates [LY415370] (100ug) and [LC415370] (20ug) can be purchased separately from OriGene.



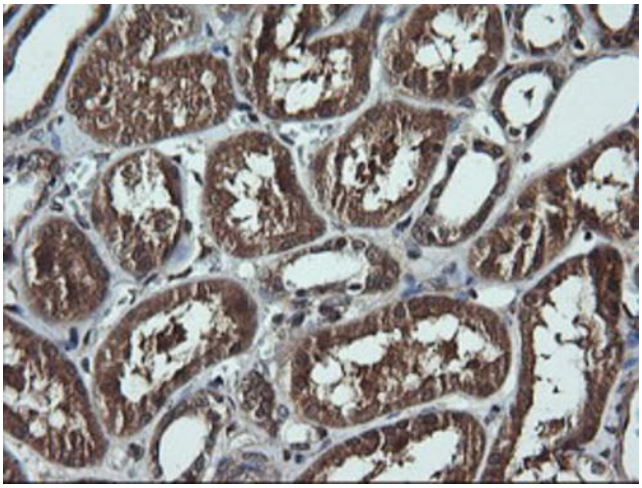

Western blot analysis of extracts (10ug) from 1 cell line by using anti-DDX58 monoclonal antibody (1:200).



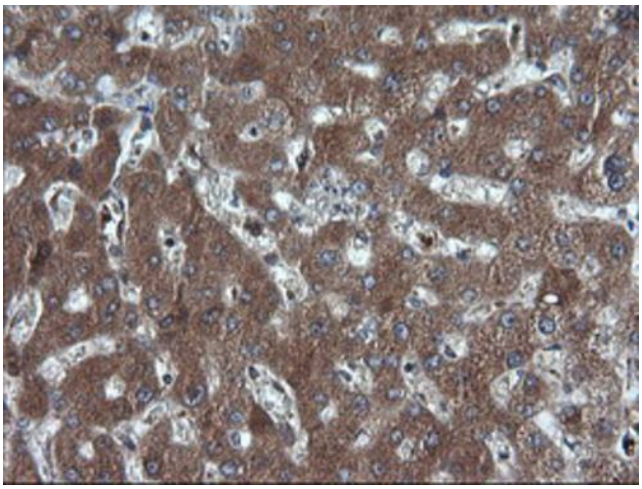

Equivalent amounts of cell lysates (10 ug per lane) of wild-type A549 cells and DDX58-Knockout A549 cells (KO, Cat# [LC806244]) were separated by SDS-PAGE and immunoblotted with anti-DDX58 monoclonal antibody [TA506141] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



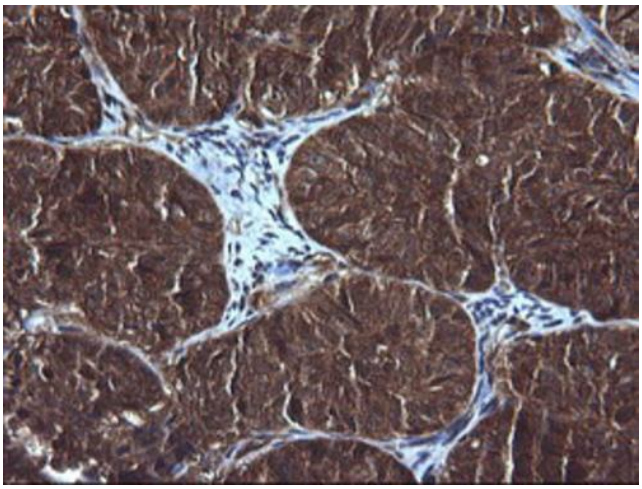
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-DDX58 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



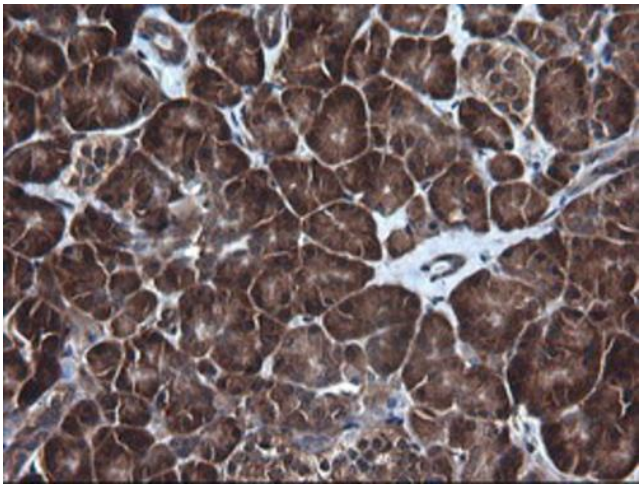
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-DDX58 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



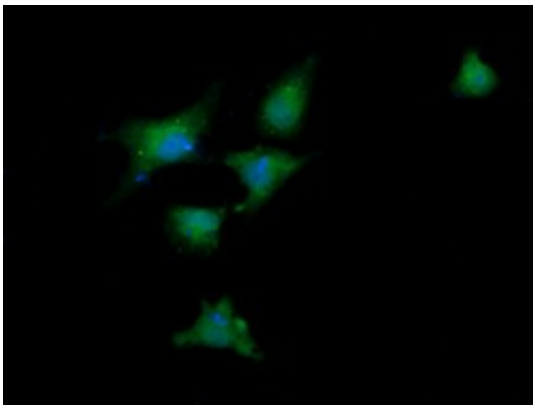
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-DDX58 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-DDX58 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-DDX58 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-DDX58 mouse monoclonal antibody ([TA506141]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY DDX58 ([RC217615]).