

## Product datasheet for **CF811893**

### DDX50 Mouse Monoclonal Antibody [Clone ID: OTI4F7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F7
Applications:	IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:1000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1-287 of human DDX50 (NP_076950) produced in E.coli.
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:	82.4 kDa
Gene Name:	DExD-box helicase 50
Database Link:	<a href="#">NP_076950</a> <a href="#">Entrez Gene 94213 Mouse</a> <a href="#">Entrez Gene 361848 Rat</a> <a href="#">Entrez Gene 79009 Human</a> <a href="#">Q9BQ39</a>



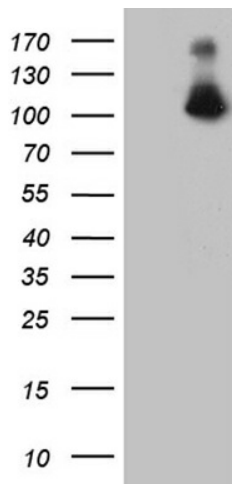
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**Background:**

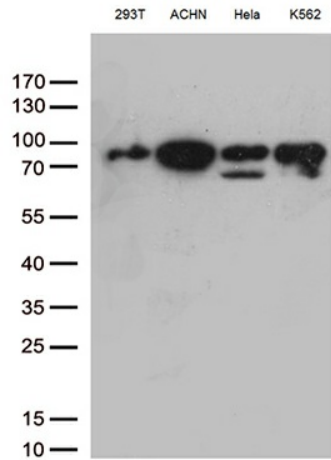
DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box enzyme that may be involved in ribosomal RNA synthesis or processing. This gene and DDX21, also called RH-II/GuA, have similar genomic structures and are in tandem orientation on chromosome 10, suggesting that the two genes arose by gene duplication in evolution. This gene has pseudogenes on chromosomes 2, 3 and 4. Alternative splicing of this gene generates multiple transcript variants, but the full length nature of all the other variants but one has not been defined. [provided by RefSeq, Jul 2008]

**Synonyms:**

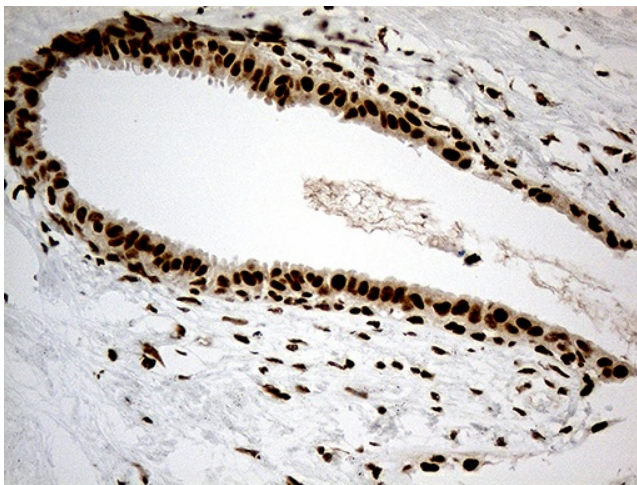
GU2; GUB; mcdrh; RH-II/GuB

**Product images:**

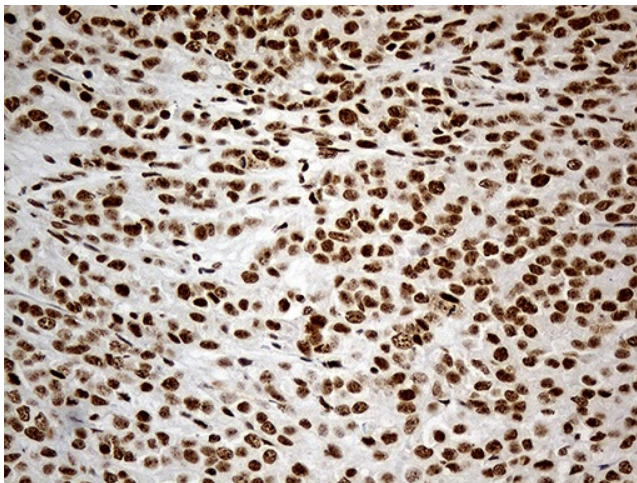
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DDX50 (Cat# [RC200990], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DDX50 (Cat# [TA811893]). Positive lysates [LY411421] (100ug) and [LC411421] (20ug) can be purchased separately from OriGene.



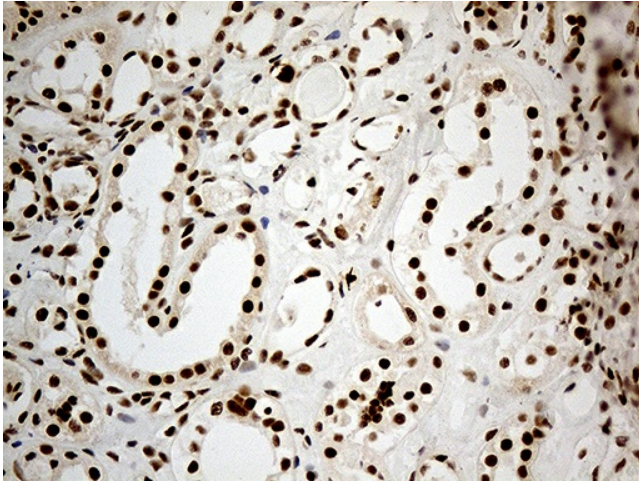
Western blot analysis of extracts (35ug) from 4 different cell lines by using anti-DDX50 monoclonal antibody (1:500).



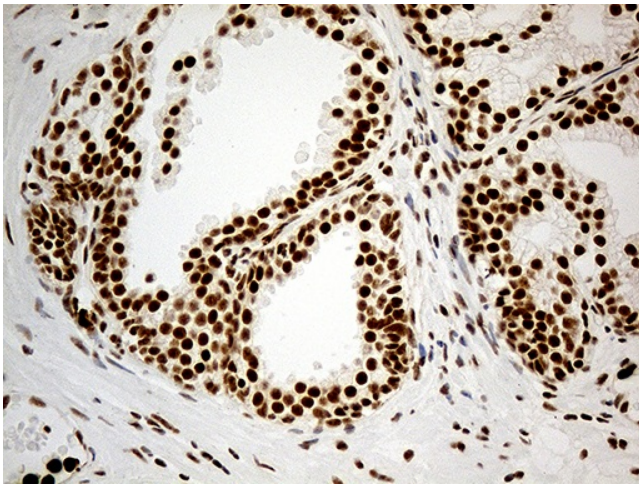
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-DDX50 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811893]) (1:1000)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-DDX50 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811893]) (1:1000)



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-DDX50 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811893]) (1:1000)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-DDX50 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811893]) (1:1000)