

Datasheet for ABIN6149741  
**anti-TXNRD2 antibody (AA 100-310)**

## 5 Images

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## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | TXNRD2   |
| Binding Specificity: | AA 100-310   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This TXNRD2 antibody is un-conjugated                                      |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Recombinant fusion protein containing a sequence corresponding to amino acids 100-310 of human Thioredoxin reductase 2 (Thioredoxin reductase 2 (TXNRD2) ) (NP_006431.2).   |
| Sequence:         | AALLGGLIQD APNYGWEVAQ PVPHDWRKMA EAVQNHVKSL NWGHRVQLQD RKKVKYFNIKA<br>SFVDEHTVCG VAKGGKEILL SADHIIATG GRPRYPHTIE GALEYGITSD DIFWLKESPG<br>KTLVVGASYV ALECAGFLTG IGLDTTIMMR SIPLRGFDQQ MSSMVIEHMA SHGTRFLRGC<br>APSRVRRLPD GQLQVTWEDS TTGKEDTGTF D |
| Isotype:          | IgG   |
| Cross-Reactivity: | Human, Mouse  |
| Characteristics:  | Polyclonal Antibodies   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | TXNRD2   |
| Alternative Name: | TXNRD2 ( <a href="#">TXNRD2 Products</a> )   |
| Background:       | <p>The protein encoded by this gene belongs to the pyridine nucleotide-disulfide oxidoreductase family, and is a member of the thioredoxin (Trx) system. Three thioredoxin reductase (TrxR) isozymes are found in mammals. TrxRs are selenocysteine-containing flavoenzymes, which reduce thioredoxins, as well as other substrates, and play a key role in redox homeostasis. This gene encodes a mitochondrial form important for scavenging reactive oxygen species in mitochondria. It functions as a homodimer containing FAD, and selenocysteine (Sec) at the active site. Sec is encoded by UGA codon that normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Alternatively spliced transcript variants encoding different isoforms, including a few localized in the cytosol and some lacking the C-terminal Sec residue, have been found for this gene.,TXNRD2,SELZ,TR,TR-BETA,TR3,TRXR2,Cell Biology &amp; Developmental Biology,Endocrine &amp; Metabolism,TXNRD2</p> |
| Molecular Weight: | 30 kDa/46 kDa/53 kDa/56 kDa  |
| Gene ID:          | 10587  |
| UniProt:          | <a href="#">Q9NNW7</a>   |
| Pathways:         | <a href="#">Cell RedoxHomeostasis</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200 |
| Comment:           | HIGH QUALITY                                       |
| Restrictions:      | For Research Use only                              |

## Handling

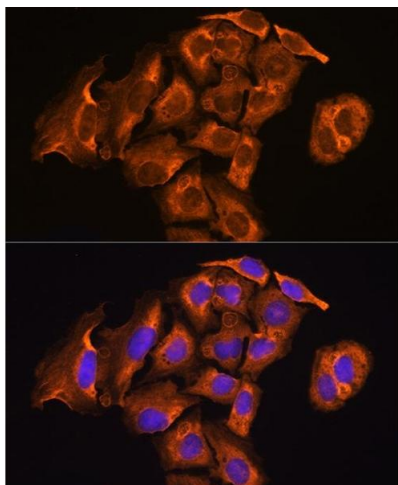
|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Handling

Storage: -20 °C

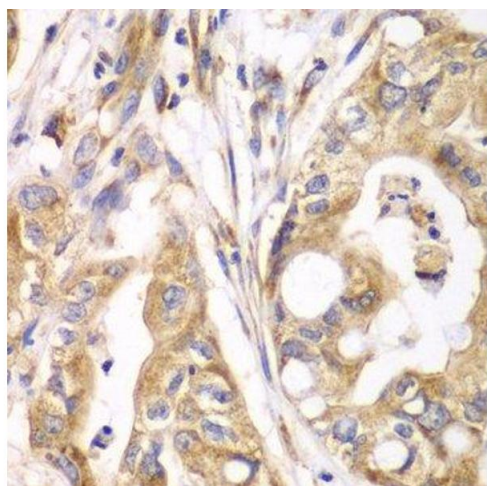
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



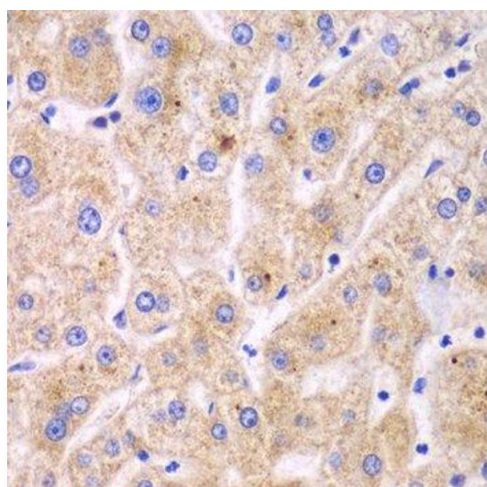
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using Thioredoxin reductase 2 (TXNRD2) antibody (ABIN6128856, ABIN6149741, ABIN6149742 and ABIN6221158) at dilution of 1:100. Blue: DAPI for nuclear staining. ,



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Immunohistochemistry of paraffin-embedded human liver cancer using TXNRD2 antibody.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded human liver injury using TXNRD2 antibody.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6149741.