

## Mouse anti-Human TRXR1/TXNRD1 Monoclonal Antibody | anti-TXNRD1 antibody

Anti-TRXR1/TXNRD1 Antibody, Mouse Monoclonal

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                              |
|-----------|-------|------------|---------------------------------------------------------------------------|
| AAA255630 | Mouse | Human      | Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay |

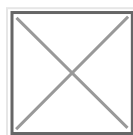
### PRODUCT SYNONYMS

TRXR1/TXNRD1; Monoclonal Antibody; Anti-TRXR1/TXNRD1 Antibody; Mouse Monoclonal; TXNRD1 Antibody; Mouse MAb; thioredoxin reductase 1; Anti-GRIM-12 Antibody; Anti-TR Antibody; Anti-TR1 Antibody; Anti-TRXR1 Antibody; Anti-TXNR Antibody; anti-TXNRD1 antibody

### PRODUCT SPECIFICATIONS

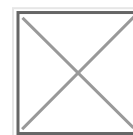
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|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                          |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                          |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                     |
| Isotype                                          | Mouse IgG1                                                                                                                                                                                                                                                                                     |
| Clone Number                                     | 06                                                                                                                                                                                                                                                                                             |
| Specificity                                      | Human TXNRD1                                                                                                                                                                                                                                                                                   |
| Purity/Purification                              | Protein A                                                                                                                                                                                                                                                                                      |
| Form/Format                                      | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                                         |
| Applicable Applications for anti-TXNRD1 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                  |
| Immunogen                                        | Recombinant Human TXNRD1 protein                                                                                                                                                                                                                                                               |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                                                                   |
| Preparation                                      | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human TXNRD1 (rh TXNRD1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.                          |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human TXNRD1 expression on HeLa cells. &nbsp;The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human C1QBP, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



#### IF (Immunofluorescence)

Immunofluorescence staining of Human TXNRD1 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human TXNRD1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm and nucleus.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TXNRD1 antibody | Thioredoxin reductase 1 (TXNRD1) which is a selenocysteine-containing protein is overexpressed in many malignancies. TXNRD1 plays a key role in regulating cell growth and transformation, and protects cells against oxidative damage. We investigated the association between TXNRD1 polymorphisms and ATDH susceptibility. Moreover, TXNRD1 is an essential selenium-containing enzyme involved in detoxification of reactive oxygen species (ROS) and redox signaling. And genetic variations in TXNRD1 favor the development of Drug-induced liver injury (DILI), which is the most common adverse drug reaction. |
| References                                           | Gasdaska P.Y., et al., 1995, FEBS Lett. 373:5-9. Rundloef A.-K., et al., 2004, Free Radic. Biol. Med. 36:641-656. Rikova K., et al., 2007, Cell 131:1190-1203. Fritz-Wolf K., et al., 2007, J. Mol. Biol. 370:116-127. Choudhary C., et al., 2009, Science 325:834-840.                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                            |                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------|
| NCBI GI #                  | 172046253                                                                                     |
| NCBI GeneID                | 7296                                                                                          |
| UniProt Accession #        | Q16881                                                                                        |
| NCBI Official Full Name    | Thioredoxin reductase 1, cytoplasmic                                                          |
| UniProt Protein Name       | Thioredoxin reductase 1, cytoplasmic                                                          |
| UniProt Gene Name          | TXNRD1                                                                                        |
| UniProt Synonym Gene Names | GRIM12; KDRF; TR; GRIM-12; Gene associated with retinoic and IFN-induced mortality 12 protein |
| UniProt Entry Name         | TRXR1_HUMAN                                                                                   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/trxr1-txnrd1-antibody-clone-06-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/255630>