


Product datasheet

Anti-TXNRD1 antibody [EPR10205] ab167411

Recombinant RabMAb

8 Images

Overview

Product name	Anti-TXNRD1 antibody [EPR10205]
Description	Rabbit monoclonal [EPR10205] to TXNRD1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt (Intra) Unsuitable for: IP
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2, SH-SY5Y and HeLa cell lysates; Human pancreas tissue; HepG2 cells; permeabilized SH-SY5Y cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10205
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab167411 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

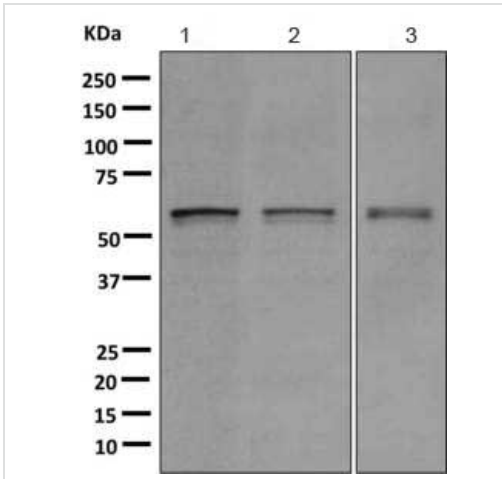
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Predicted molecular weight: 71 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.
Flow Cyt (Intra)		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IP.

Target

Function	Isoform 1 may possess glutaredoxin activity as well as thioredoxin reductase activity and induces actin and tubulin polymerization, leading to formation of cell membrane protrusions. Isoform 4 enhances the transcriptional activity of estrogen receptors alpha and beta while isoform 5 enhances the transcriptional activity of the beta receptor only. Isoform 5 also mediates cell death induced by a combination of interferon-beta and retinoic acid.
Tissue specificity	Isoform 1 is expressed predominantly in Leydig cells (at protein level). Also expressed in ovary, spleen, heart, liver, kidney and pancreas and in a number of cancer cell lines. Isoform 4 is widely expressed with highest levels in kidney, testis, uterus, ovary, prostate, placenta and fetal liver.
Sequence similarities	Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. Contains 1 glutaredoxin domain.
Domain	The N-terminal glutaredoxin domain found in isoform 1 does not contain the C-P-Y-C redox-active motif normally found in glutaredoxins and has been found to be inactive in classical glutaredoxin assays.
Post-translational modifications	The N-terminus of isoform 5 is blocked. ISGylated.
Cellular localization	Cytoplasm and Cytoplasm. Nucleus.

Images



Western blot - Anti-TXNRD1 antibody [EPR10205] (ab167411)

All lanes : Anti-TXNRD1 antibody [EPR10205] (ab167411) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : SH-SY5Y cell lysate

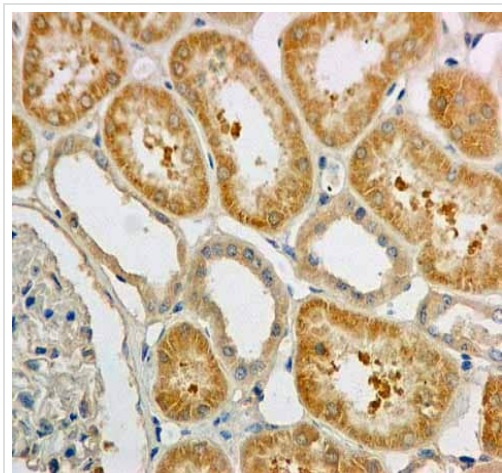
Lane 3 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP conjugated antibody at 1/2000 dilution

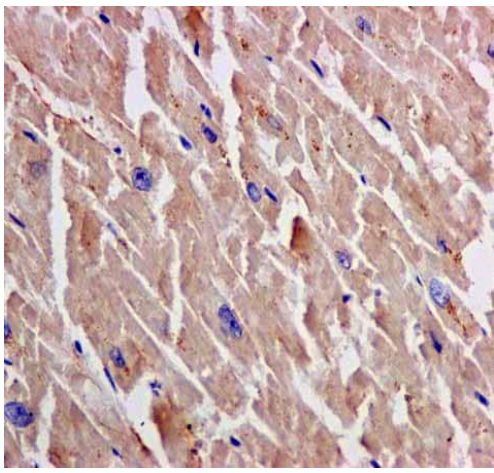
Predicted band size: 71 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNRD1 antibody [EPR10205] (ab167411)

ab167411 showing +ve staining in Human normal kidney.

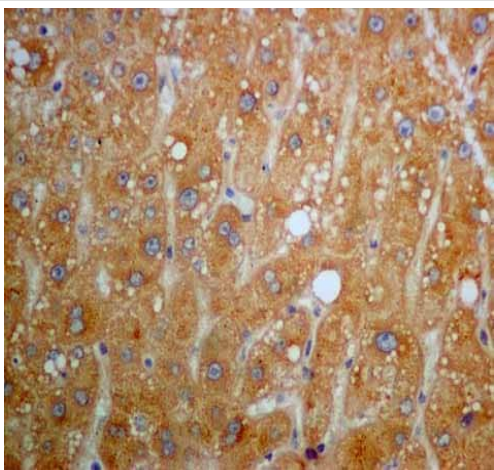
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNRD1 antibody [EPR10205] (ab167411)

ab167411 showing +ve staining in Human heart.

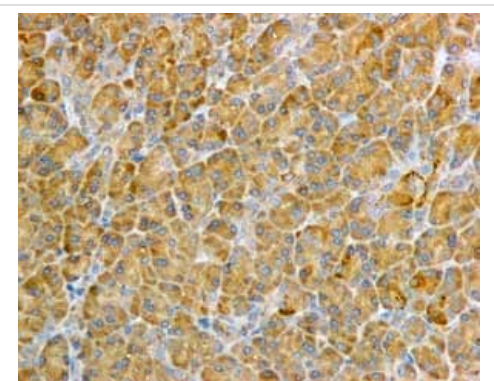
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNRD1 antibody [EPR10205] (ab167411)

ab167411 showing +ve staining in Human normal liver.

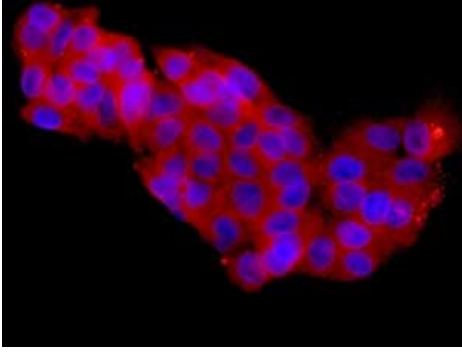
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNRD1 antibody [EPR10205] (ab167411)

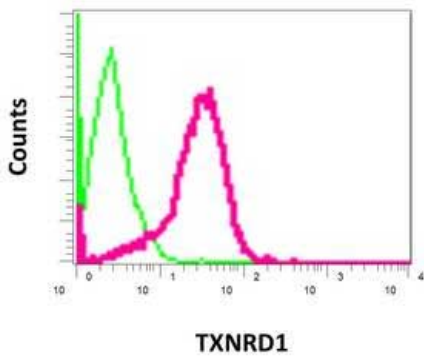
Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling TXNRD1 with ab167411 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunofluorescent staining of HepG2 cells labeling TXNRD1 with ab167411 at 1/250 dilution. DAPI nuclear staining (blue).

Immunocytochemistry/ Immunofluorescence - Anti-TXNRD1 antibody [EPR10205] (ab167411)



Intracellular flow cytometric analysis of permeabilized SH-SY5Y cells labeling TXNRD1 with ab167411 at 1/100 dilution (red) or with a rabbit IgG (negative) (green).

Flow Cytometry (Intracellular) - Anti-TXNRD1 antibody [EPR10205] (ab167411)

Why choose a recombinant antibody?

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Research with confidence
Consistent and reproducible results
- 

Long-term and scalable supply
Recombinant technology
- 

Success from the first experiment
Confirmed specificity
- 

Ethical standards compliant
Animal-free production

Anti-TXNRD1 antibody [EPR10205] (ab167411)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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