

### Anti-TXNRD1 antibody [EPNCIR129] ab124954

リコンビナント RabMAb

**24 References** [画像数 10](#)

#### 製品の概要

製品名	Anti-TXNRD1 antibody [EPNCIR129]
製品の詳細	Rabbit monoclonal [EPNCIR129] to TXNRD1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IP, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant full length protein corresponding to Mouse TXNRD1. Database link: <a href="#">Q9JMH6</a>
ポジティブ・コントロール	Mouse liver, NIH 3T3, RAW264.7, Human fetal liver and Rat liver lysates; HeLa cells.
特記事項	<p>This antibody was developed as part of a collaboration between Epitomics, the National Cancer Institute's Center for Cancer Research and the lab of Dolph Hatfield. <b><a href="#">View antibodies from NCI Center for Cancer Research Collaboration.</a></b></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名 EPNCIR129  
アイソタイプ IgG

## アプリケーション

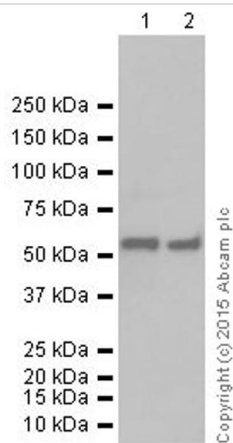
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab124954の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/100 - 1/500. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Detects a band of approximately 55 kDa (predicted molecular weight: 55, 67 kDa).
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. (Heat to 98°C, allow to cool for 10-20 minutes)
ICC/IF		1/100 - 1/250.

## ターゲット情報

機能	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.
組織特異性	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.
配列類似性	Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. Contains 1 glutaredoxin domain.
ドメイン	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.
翻訳後修飾	The N-terminus of isoform 5 is blocked. ISGylated.
細胞内局在	Cytoplasm and Cytoplasm. Nucleus.

## 画像



Western blot - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

**All lanes :** Anti-TXNRD1 antibody [EPNCIR129] (ab124954) at 1/10000 dilution (purified)

**Lane 1 :** rat liver lysate

**Lane 2 :** NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

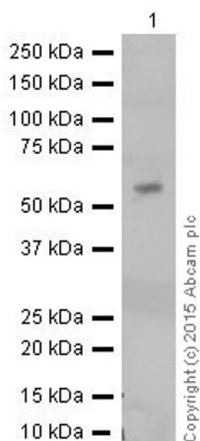
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

**Predicted band size:** 55, 67 kDa

**Observed band size:** 55 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Anti-TXNRD1 antibody [EPNCIR129] (ab124954) at 1/10000 dilution (purified) + HeLa cell lysate at 10 µg

**Secondary**

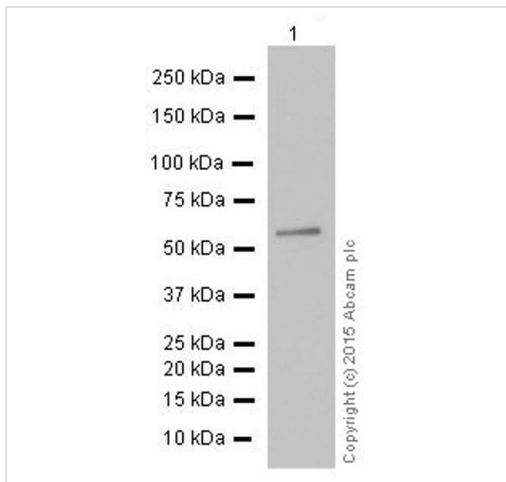
HRP goat anti-rabbit IgG (H+L) at 1/100000 dilution

**Predicted band size:** 55, 67 kDa

**Observed band size:** 55 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Anti-TXNRD1 antibody [EPNCIR129] (ab124954) at 1/10000 dilution (purified) + HepG2 cell lysate at 10 µg

### Secondary

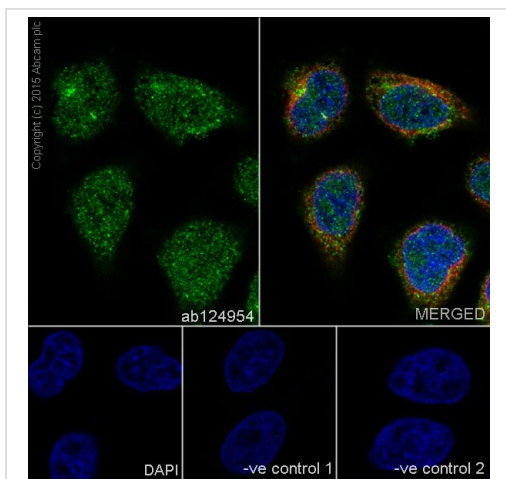
HRP goat anti-rabbit IgG (H+L) at 1/100000 dilution

**Predicted band size:** 55, 67 kDa

**Observed band size:** 55 kDa

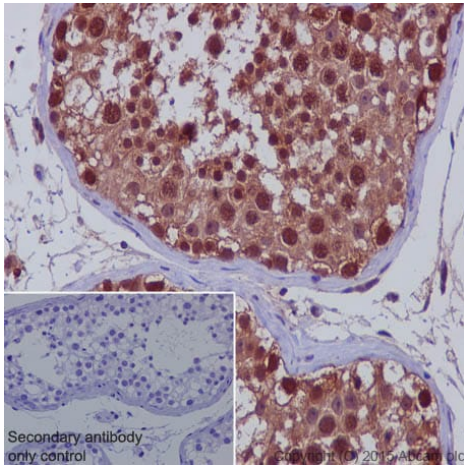
Blocking buffer: 5% NFD/MTBST

Dilution buffer: 5% NFD/MTBST



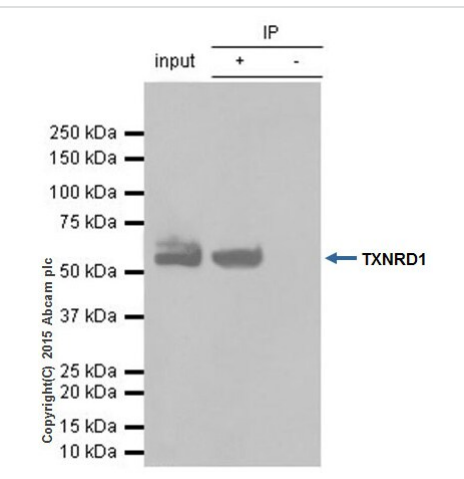
Immunocytochemistry/ Immunofluorescence - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Immunofluorescence staining of HeLa cells with purified ab124954 at a working dilution of 1/150, counter-stained with DAPI. The secondary antibody was Alexa Fluor<sup>®</sup> 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor<sup>®</sup> 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab124954 was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



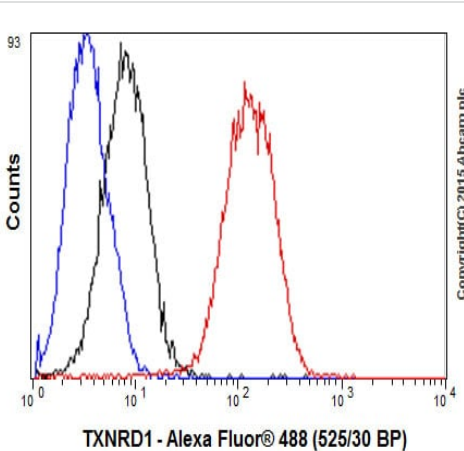
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Immunohistochemical staining of paraffin embedded human testis with purified ab124954 at a working dilution of 1/150. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



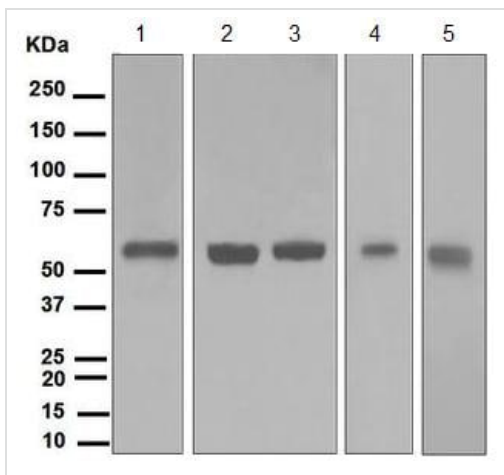
Immunoprecipitation - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

ab124954 (purified) at 1/40 immunoprecipitating TXNRD1 in 10  $\mu$ g Jurkat (Lanes 1 and 2, observed at 55 kDa). Lane 3 - PBS. For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution. Blocking buffer and concentration: 5% NFDm/TBST Dilution buffer and concentration: 5% NFDm/TBST



Flow Cytometry (Intracellular) - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Overlay histogram showing HeLa cells fixed in 4% PFA and stained with purified ab124954 at a dilution of 1 in 120 (red line). The secondary antibody used was FITC goat anti-rabbit at a dilution of 1 in 500. Rabbit monoclonal IgG was used as an isotype control (black line) and cells incubated in the absence of both primary and secondary antibody were used as a negative control (blue line).



Western blot - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

**All lanes :** Anti-TXNRD1 antibody [EPNCIR129] (ab124954) at 1/1000 dilution (unpurified)

**Lane 1 :** Mouse liver lysates

**Lane 2 :** NIH 3T3 lysates

**Lane 3 :** RAW264.7 lysates

**Lane 4 :** Human fetal liver lysates

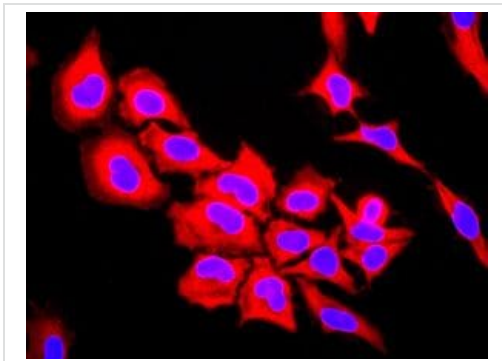
**Lane 5 :** Rat liver lysates

Lysates/proteins at 10 µg per lane.

**Secondary**

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





**Predicted band size:** 55, 67 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

Unpurified ab124954, at 1/100 dilution, staining TXNRD1 in HeLa cells by Immunofluorescence.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-TXNRD1 antibody [EPNCIR129] (ab124954)

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

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