


## Product datasheet

### Anti-TXNRD1 antibody ab16840

★★★★★ [3 Abreviews](#) [24 References](#) [1 Image](#)

#### Overview

Product name	Anti-TXNRD1 antibody
Description	Rabbit polyclonal to TXNRD1
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IP, ICC/IF, IHC-P, WB
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Horse, Cow, Chimpanzee, Ferret, Macaque monkey, Orangutan 
Immunogen	Recombinant full length protein (Human).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.03% Sodium azide Constituents: HEPES, 50% Glycerol, 0.87% Sodium chloride, 0.01% BSA
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

#### Applications

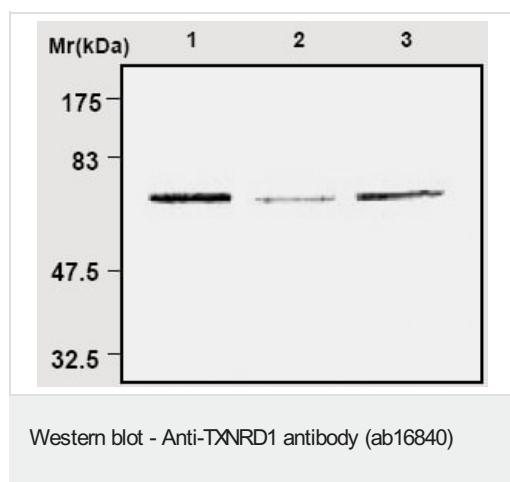
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab16840 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
WB	★★★★★ (2)	1/2000. Predicted molecular weight: 55 kDa.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. Contains 1 glutaredoxin domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	The N-terminus of isoform 5 is blocked. ISGylated.
<b>Cellular localization</b>	Cytoplasm and Cytoplasm. Nucleus.

## Images



ab16840 at 1/2000 dilution staining human TXNRD1 in HeLa, Jurkat, and 293T lysates by Western blot.

Lane 1: HeLa cell lysates.

Lane 2: 293T cell lysates.

Lane 3: Jurkat cell lysates.

ab16840 at 1/2000 dilution staining human TXNRD1 in HeLa, Jurkat, and 293T lysates by Western blot.

Lane 1: HeLa cell lysates.

Lane 2: 293T cell lysates.

Lane 3: Jurkat cell lysates.

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

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- Extensive multi-media technical resources to help you
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