



Product datasheet

Anti-TXNDC5 antibody ab13820

★★★★★ [1 Abreviews](#) [6 References](#) [5 Images](#)

Overview

Product name	Anti-TXNDC5 antibody
Description	Goat polyclonal to TXNDC5
Host species	Goat
Specificity	This antibody is expected to be able to recognise both reported human isoforms, as represented by NP_110437; NP_071368.
Tested applications	Suitable for: IHC-P, WB, Flow Cyt (Intra), ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human TXNDC5 aa 400 to the C-terminus (C terminal). (NP_001139021.1) Database link: NP_110437.2
	 Run BLAST with  Run BLAST with
Positive control	Flow Cyt (Intra): HeLa cells.
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&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	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab13820 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
IHC-P		Use at an assay dependent concentration.
WB		Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa). A 1 hour primary incubation is recommended for this product.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
ICC/IF	★★★★★ (1)	Use a concentration of 10 µg/ml.

Target

Function

Possesses thioredoxin activity. Has been shown to reduce insulin disulfide bonds. Also complements protein disulfide-isomerase deficiency in yeast.

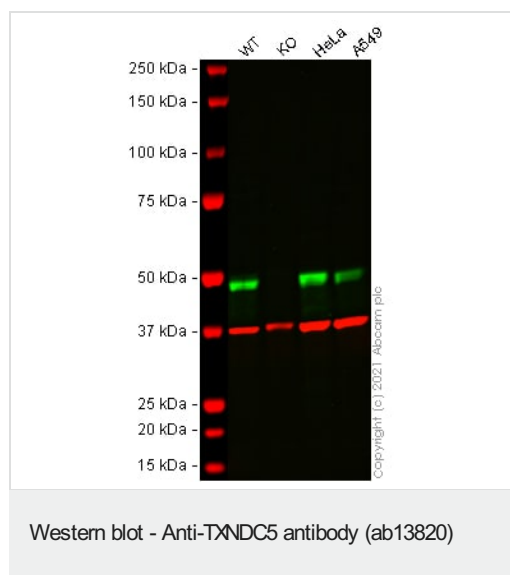
Sequence similarities

Belongs to the protein disulfide isomerase family.
Contains 3 thioredoxin domains.

Cellular localization

Endoplasmic reticulum lumen.

Images



All lanes : Anti-TXNDC5 antibody (ab13820) at 0.1 µg/ml

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : TXNDC5 knockout HEK-293T cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : A549 cell lysate

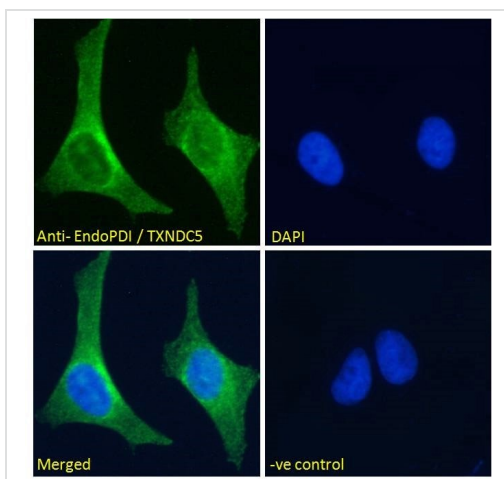
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 50 kDa

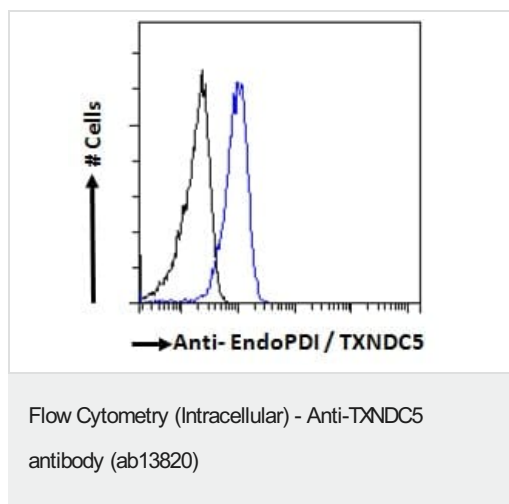
Observed band size: 47 kDa

False colour image of Western blot: Anti-TXNDC5 antibody staining at 0.1 µg/ml, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab13820 was shown to bind specifically to TXNDC5. A band was observed at 47 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in TXNDC5 knockout cell line [ab266609](#) (knockout cell lysate [ab263403](#)). To generate this image, wild-type and TXNDC5 knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Donkey anti-Goat IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216775](#)) and Donkey anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216778](#)) at 1/20000 dilution.

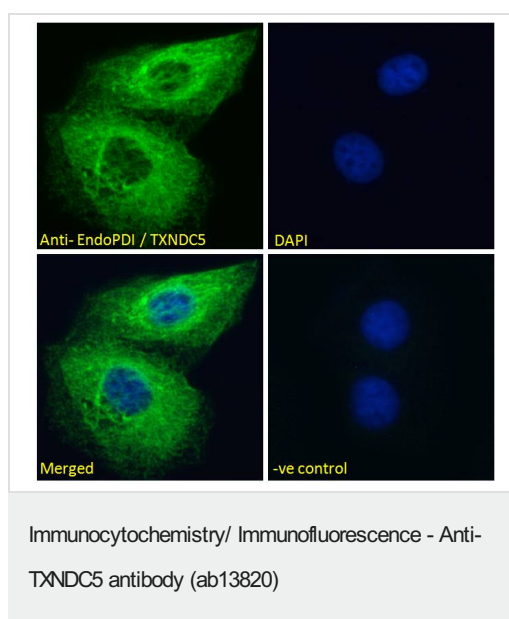


Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation with ab13820 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).

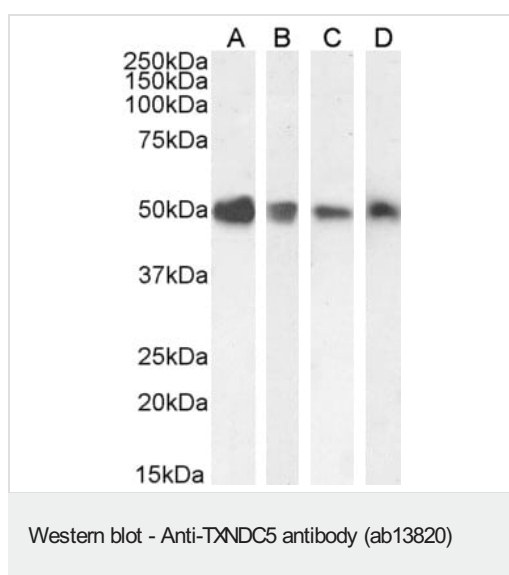
Immunocytochemistry/ Immunofluorescence - Anti-TXNDC5 antibody (ab13820)



Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation with ab13820 for 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (1 µg/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation with ab13820 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).



All lanes : Anti-TXNDC5 antibody (ab13820) at 0.1 µg/ml

Lane 1 : HEK-293 cell lysate

Lane 2 : A549 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : HepG2 cell lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 50 kDa

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

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