

## International Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB06471 - Goat Anti-EndoPDI / TXNDC5 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** EndoPDI, thioredoxin domain containing 5, ERP46, UNQ364, MGC3178, FLJ21353, FLJ90810, thioredoxin related protein, endothelial protein disulphide isomerase, TXNDC5, thioredoxin domain containing 5 (endoplasmic reticulum), Hcc-2, PDIA15, endothelial protein disulphide isomerase, protein disulfide isomerase family A, member 15, thioredoxin domain containing 5

**Official Symbol:** TXNDC5

**Accession Number(s):** NP\_110437.2; NP\_001139021.1

**Human GeneID(s):** [81567](#)

**Important Comments:** This antibody is expected to be able to recognise both reported human isoforms, as represented by NP\_110437.2; NP\_001139021.1.

### Immunogen

Peptide with sequence C-SLHRFVLSQAKDEL, from the C Terminus of the protein sequence according to NP\_110437.2; NP\_001139021.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Approx 50kDa band observed in lysates of cell lines HEK293, A549, HeLa and HepG2 (calculated MW of 47.6kDa according to NP\_110437.2). This molecular weight is routinely observed by other sources. Recommended concentration: 0.01-0.1µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Small Intestine. Recommended concentration: 3.75µg/ml.

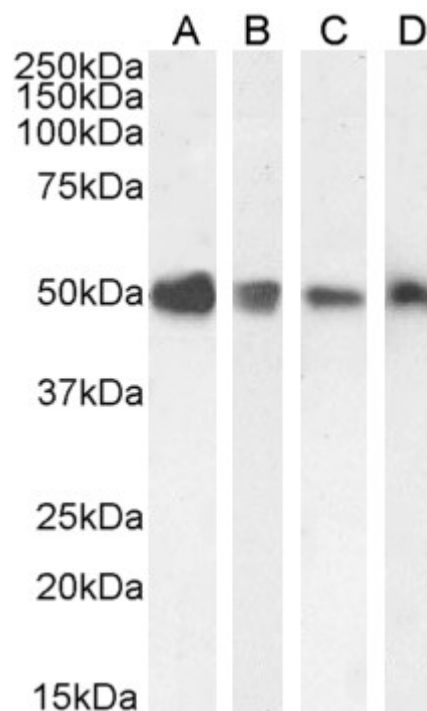
**Immunofluorescence:** Strong expression of the protein seen in the endoplasmic reticulum of U2OS and HeLa cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

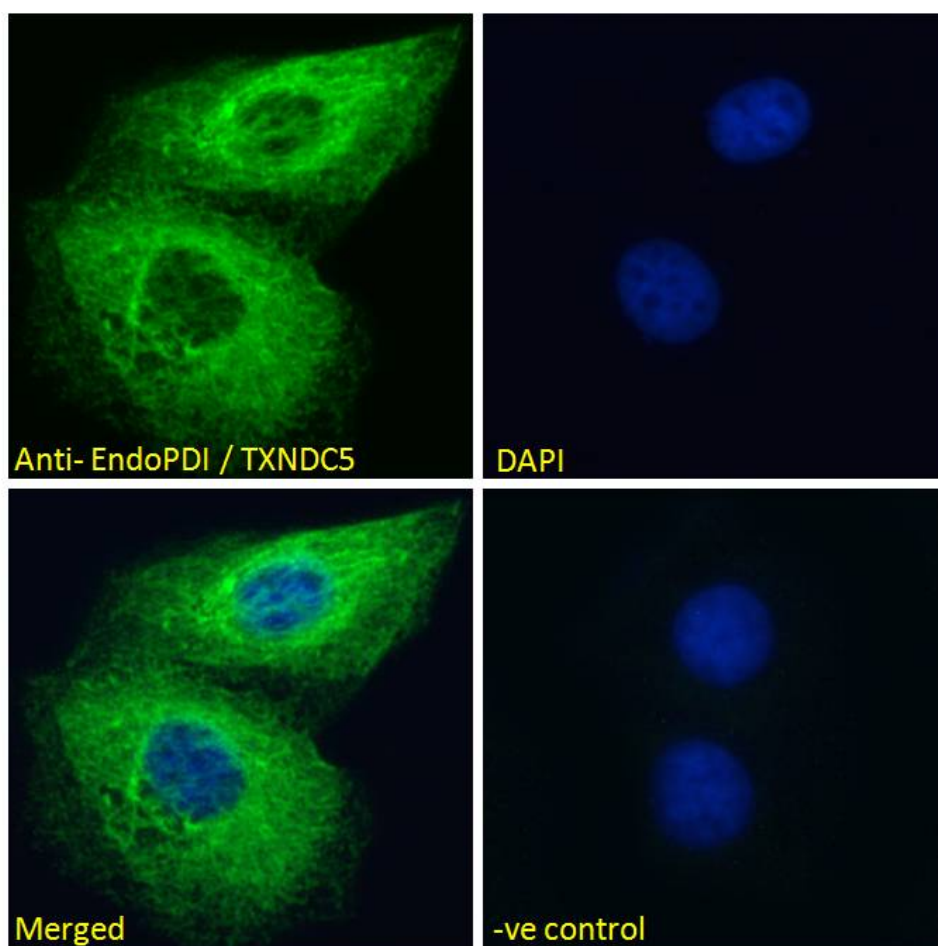
### Species Reactivity

**Tested:** Human

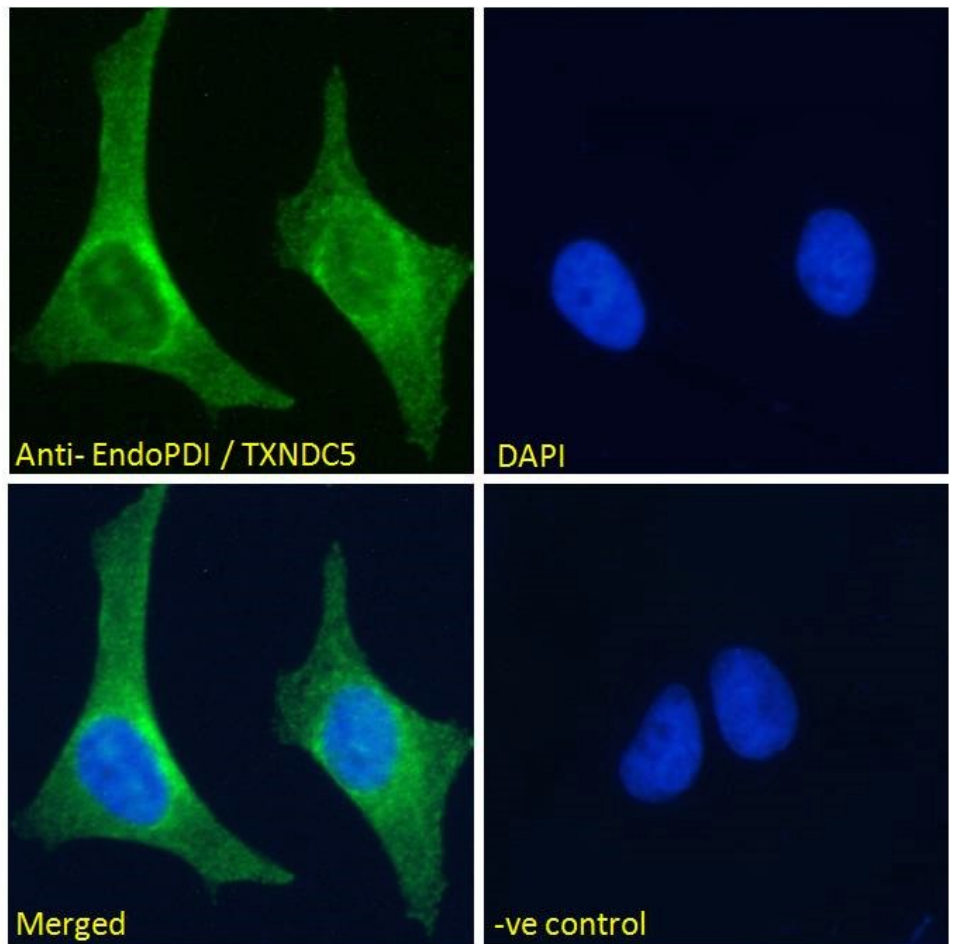
**Expected from sequence similarity:** Human



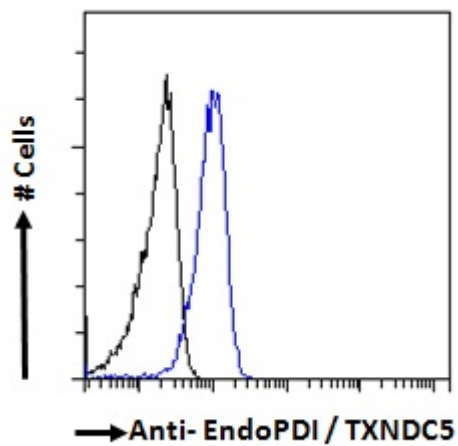
EB06471 staining (0.1 $\mu$ g/ml) of HEK293 (A), A549 (B), HeLa (C) and (0.01 $\mu$ g/ml) of HepG2 (D) cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



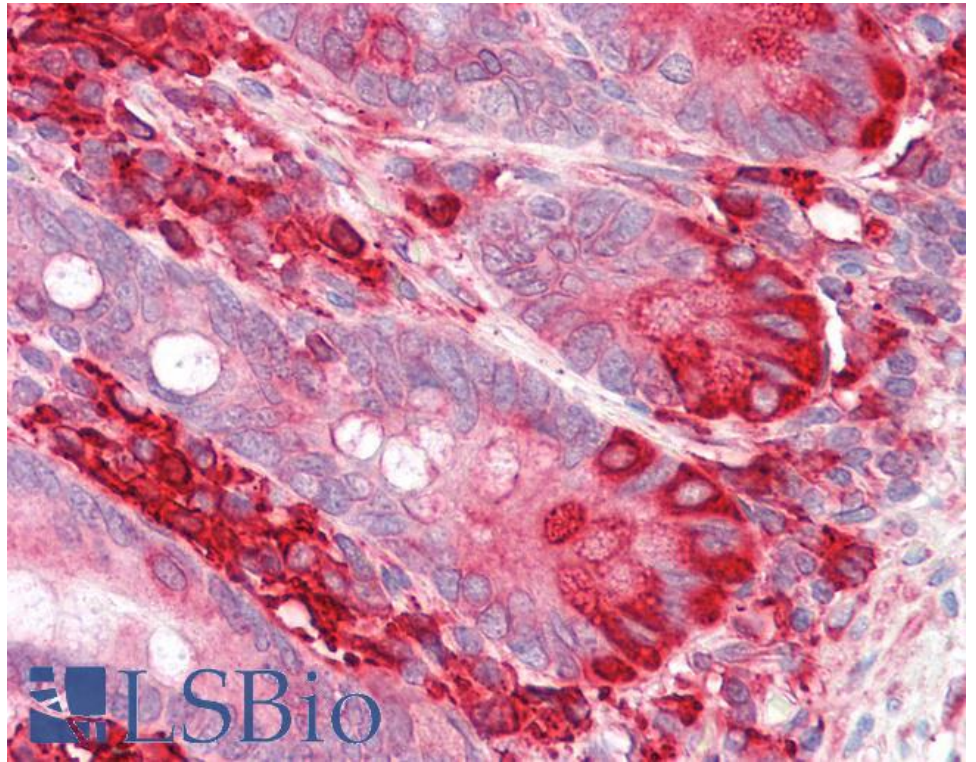
EB06471 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml).



EB06471 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06471 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB06471 (3.75µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.