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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 (0.1µg/ml) of HEK293 (A), A549 (B), HeLa (C) and (0.01ug/ml) of HepG2 (D) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB06471 Immunofluorescence analysis of paraformaldehyde fixed HeLa 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 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.