Anti-PDIA2 Antibody [JF97-08]

ET1702-70



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	
Applications:	Prodicted hand size: 57 kDa
Clone number:	JE 31-00
Description:	Oxidoreductase-protein disulfide isomerase (PDI) is a homodimer consisting of subunits that catalyzes thiol-disulfide exchange, mediates folding of newly synthesized proteins and functions as a molecular chaperone. PDI localizes to the lumen of the endoplasmic reticulum (ER), where in conjunction with folding-helper proteins, such as immunoglobulin heavy chain binding protein (BiP), mediates tertiary and quaternary protein-processing. Cell surface PDI induces sulfhydryl-mediated conformational changes in integrin-mediated adhesion receptor-ligand interactions, thereby regulating integrin responses and cell adhesion. Additionally, PDI functions as a subunit of two more complex enzyme systems: the prolyl-4-hydroxylase and the triacylglycerol transfer proteins.
lmmunogen:	Synthetic peptide within Human PDIA2 aa 405-450.
Positive control:	HEK-293 cell lysate, NIH/3T3 cell lysate, Human liver tissue lysate.
Subcellular location:	Endoplasmic reticulum, Endoplasmic reticulum lumen, Melanosome, Cell membrane.
Database links:	SwissProt: Q13087 Human D3Z6P0 Mouse
Recommended Dilutions: WB	1:1,000-1:2,000
Storage Buffer:	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!{\rm C}$. Store at +4 $^\circ\!{\rm C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!{\rm C}$ long term.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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Images

Fig1: Western blot analysis of PDIA2 on different lysates with Rabbit anti-PDIA2 antibody (ET1702-70) at 1/1,000 dilution.

Lane 1: HEK-293 cell lysate (20 µg/Lane) Lane 2: NIH/3T3 cell lysate (20 µg/Lane) Lane 3: Human liver tissue lysate (40 µg/Lane)

Predicted band size: 92 kDa Observed band size: 92 kDa

Exposure time: Lane 1: 1 minute 18 seconds; Lane 2-3: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1702-70) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

kDa xHt 29

PDIA2

GAPDH

-70kDa

250-

150-100-

72-55-45-

35-25

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- 1. Obser T et al. Identification and characterization of the elusive mutation causing the historical von Willebrand Disease type IIC Miami. J Thromb Haemost 14:1725-35 (2016).
- 2. Koumangoye R & Delpire E The Ste20 kinases SPAK and OSR1 travel between cells through exosomes. Am J Physiol Cell Physiol 311:C43-53 (2016).

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