

# Anti-PDIA2 Antibody [JF97-08]

## ET1702-70



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, FC
<b>Molecular Wt:</b>	Predicted band size: 57 kDa
<b>Clone number:</b>	JF97-08

**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.

**Immunogen:** Synthetic peptide within Human PDIA2 aa 405-450.

**Positive control:** NIH/3T3 cell lysate, human liver tissue lysate, Hela.

**Subcellular location:** Endoplasmic reticulum, Endoplasmic reticulum lumen, Melanosome, Cell membrane.

**Database links:** SwissProt: Q13087 Human | D3Z6P0 Mouse  
Unigene: 65154 Rat

**Recommended Dilutions:**

WB	1:1,000-1:2,000
FC	1:50-1:100

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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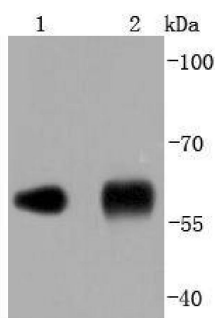
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## Images



**Fig1:** Western blot analysis of PDIA2 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET1702-70, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

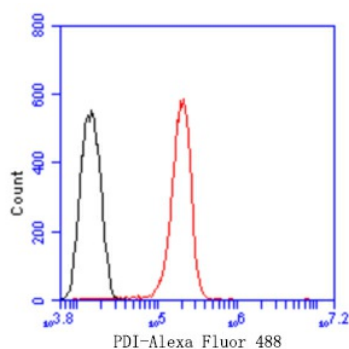
**Positive control:**

Lane 1: NIH/3T3 cell lysate

Lane 2: Human liver tissue lysate

Predicted band size: 57 kDa

Observed band size: 57 kDa



**Fig2:** Flow cytometric analysis of PDIA2 was done on HeLa cells. The cells were fixed, permeabilized and stained with the primary antibody (ET1702-70, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

## Background References

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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