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# Goat Anti-PDIA2 / PDIP Antibody

**Peptide-affinity purified goat antibody**

**Catalog # AF1805a**

## Specification

### Goat Anti-PDIA2 / PDIP Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q13087 |
| Other Accession | NP_006840, 64714, 69191 (mouse) |
| Reactivity | **Human** |
| Predicted | **Mouse, Rat** |
| Host | **Goat** |
| Clonality | **Polyclonal** |
| Concentration | **100ug/200ul** |
| Isotype | **IgG** |
| Calculated MW | **58206** |

### Goat Anti-PDIA2 / PDIP Antibody - Additional Information

**Gene ID** 64714

**Other Names**
Protein disulfide-isomerase A2, 5.3.4.1, Pancreas-specific protein disulfide isomerase, PDIp, PDIA2, PDIP

**Format**
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Goat Anti-PDIA2 / PDIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-PDIA2 / PDIP Antibody - Protein Information

**Name** PDIA2

**Synonyms** PDIP

**Function**
Acts as an intracellular estrogen-binding protein. May be involved in modulating cellular levels and biological functions of estrogens in the pancreas. May act as a chaperone that inhibits aggregation of misfolded proteins.

**Cellular Location**
Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138}

**Tissue Location**
Highly expressed in pancreas (at protein level).

## Goat Anti-PDIA2 / PDIP Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Goat Anti-PDIA2 / PDIP Antibody - Images




AF1805a (0.03 µg/ml) staining of Human Pancreas lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Goat Anti-PDIA2 / PDIP Antibody - Background

Protein disulfide isomerases (EC 5.3.4.1), such as PDIP, are endoplasmic reticulum (ER) resident proteins that catalyze protein folding and thiol-disulfide interchange reactions (Desilva et al., 1996 [PubMed 8561901]).

## Goat Anti-PDIA2 / PDIP Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Plasticity of human protein disulfide isomerase: evidence for mobility around the X-linker region and its functional significance. Wang C, et al. J Biol Chem, 2010 Aug 27. PMID 20516074.
Extracellular protein disulfide isomerase regulates coagulation on endothelial cells through

modulation of phosphatidylserine exposure. Popescu NI, et al. Blood, 2010 Aug 12. PMID 20448108.
Human pancreas-specific protein disulfide-isomerase (PDIp) can function as a chaperone independently of its enzymatic activity by forming stable complexes with denatured substrate proteins. Fu XM, et al. Biochem J, 2010 Jul 1. PMID 20423326.
Induction of the unfolded protein response and cell death pathway in Alzheimer's disease, but not in aged Tg2576 mice. Lee JH, et al. Exp Mol Med, 2010 May 31. PMID 20368688.