# ARG42546
# anti-PDIA6 antibody

Package: 100 µg
Store at: -20°C

## Summary

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|---|---|
| Product Description | Goat Polyclonal antibody recognizes PDIA6 |
| Tested Reactivity | Hu, Ms, Rat, Dog, Mk |
| Tested Application | WB |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | PDIA6 |
| Species | Human |
| Immunogen | Recombinant peptide within aa. 220 to the C-terminus of Human PDIA6. |
| Conjugation | Un-conjugated |
| Alternate Names | Protein disulfide isomerase P5; ERP5; Thioredoxin domain-containing protein 7; P5; ER protein 5; Endoplasmic reticulum protein 5; ERp5; EC 5.3.4.1; Protein disulfide-isomerase A6; TXNDC7 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| WB | 1:500 - 1:2000 |

| | |
|---|---|
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | HeLa and HT1080 |
| Observed Size | ~ 49 kDa |

## Properties

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| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS, 0.05% Sodium azide and 20% Glycerol. |
| Preservative | 0.05% Sodium azide |
| Stabilizer | 20% Glycerol |
| Concentration | 3 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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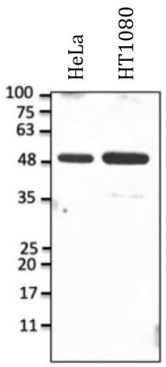
|---|---|
| Gene Symbol | PDIA6 |
| Gene Full Name | protein disulfide isomerase family A, member 6 |
| Background | This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, two catalytically active thioredoxin (TRX) domains, a TRX-like domain, and a C-terminal ER-retention sequence. This protein inhibits the aggregation of misfolded proteins and exhibits both isomerase and chaperone activity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016] |
| Function | May function as a chaperone that inhibits aggregation of misfolded proteins (PubMed:12204115). Negatively regulates the unfolded protein response (UPR) through binding to UPR sensors such as ERN1, which in turn inactivates ERN1 signaling (PubMed:24508390). May also regulate the UPR via the EIF2AK3 UPR sensor (PubMed:24508390). Plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin (PubMed:15466936). [UniProt] |
| Calculated Mw | 48 kDa |
| Cellular Localization | Endoplasmic reticulum lumen. Cell membrane. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545). [UniProt] |

## Images




ARG42546 anti-PDIA6 antibody WB image

Western blot: 50 µg of HeLa and HT1080 cell lysates stained with ARG42546 anti-PDIA6 antibody at 1:1000 dilution.