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# DNAJC3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22323c

## Product Information

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| **Application** | WB, FC, E |
| **Primary Accession** | Q13217 |
| **Other Accession** | Q9R0T3 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Human, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB57780 |
| **Calculated MW** | 57580 |

## Additional Information

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| **Gene ID** | 5611 |
| **Other Names** | DnaJ homolog subfamily C member 3, Endoplasmic reticulum DNA J domain-containing protein 6, ER-resident protein ERdj6, ERdj6, Interferon-induced, double-stranded RNA-activated protein kinase inhibitor, Protein kinase inhibitor of 58 kDa, Protein kinase inhibitor p58, DNAJC3, P58IPK, PRKRI |
| **Target/Specificity** | This DNAJC3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 189-223 amino acids of human DNAJC3. |
| **Dilution** | WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | DNAJC3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | DNAJC3 |

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| **Synonyms** | P58IPK, PRKRI |
| **Function** | Involved in the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Acts as a negative regulator of the EIF2AK4/GCN2 kinase activity by preventing the phosphorylation of eIF- 2-alpha at 'Ser-52' and hence attenuating general protein synthesis under ER stress, hypothermic and amino acid starving stress conditions (By similarity). Co-chaperone of HSPA8/HSC70, it stimulates its ATPase activity. May inhibit both the autophosphorylation of EIF2AK2/PKR and the ability of EIF2AK2 to catalyze phosphorylation of the EIF2A. May inhibit EIF2AK3/PERK activity. |
| **Cellular Location** | Endoplasmic reticulum. |
| **Tissue Location** | Widely expressed with high level in the pancreas and testis. Also expressed in cell lines with different levels |

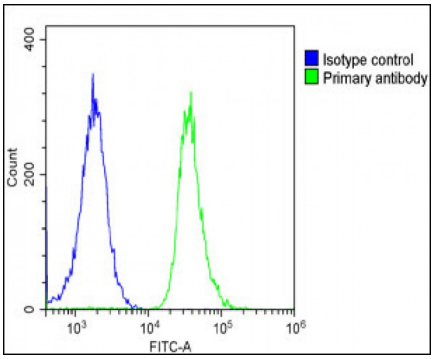
## Background

Involved in the unfolded protein response (UPR) during ER stress. Co-chaperone of HSPA8/HSC70, it stimulates its ATPase activity. May inhibit both the autophosphorylation of EIF2AK2/PKR and the ability of EIF2AK2 to catalyze phosphorylation of the EIF2A. May inhibit EIF2AK3/PERK activity.

## References

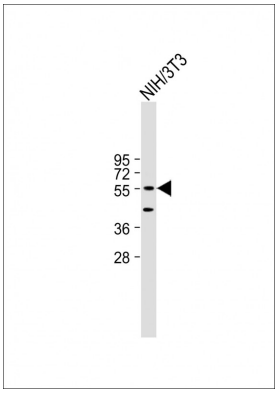

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## Images




Overlay histogram showing A431 cells stained with AP22323c(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Anti-DNAJC3 Antibody (Center) at 1:2000 dilution + NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.