PDIA3 monoclonal antibody, clone MaP.ERP57

Catalog # MAB6645 Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant PDIA3.
Immunogen	Recombinant protein corresponding to human PDIA3.
Host	Mouse
Reactivity	Bovine, Dog, Guinea pig, Hamster, Human, Monkey, Mouse, Pig, Rabbit, Rat
Specificity	Detects ~57KDa.
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunoprecipitation
- Western Blot

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Gene Info — PDIA3

Entrez GeneID	2923
Gene Name	PDIA3
Gene Alias	ER60, ERp57, ERp60, ERp61, GRP57, GRP58, HsT17083, P58, PI-PLC
Gene Description	protein disulfide isomerase family A, member 3
Omim ID	602046
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein of the endoplasmic reticulum that interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. The protein was once thought to be a phospholipase; however, it has been demonstrated that the protein actually has protein disulfide isomerase activity. It is thought that complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates. [provided by RefSeq
Other Designations	58 kDa microsomal protein|OTTHUMP00000041709|endoplasmic reticulum P58|glucose regulated protein, 58kDa|phospholipase C-alpha|protein disulfide isomerase-associated 3|protein disulfide-isomerase A3

Publication Reference

- Laminin β2 Gene Missense Mutation Produces Endoplasmic Reticulum Stress in Podocytes.

  Chen YM, Zhou Y, Go G, Marmerstein JT, Kikkawa Y, Miner JH.

  Journal of the American Society of Nephrology 2013 Jul; 24(8):1223.

  Application: IF, Human, HEK293T cells

- Consequences of ERp57 deletion on oxidative folding of obligate and facultative clients of the calnexin cycle.

  Solda T, Garbi N, Hammerling GJ, Molinari M.

  The Journal of Biological Chemistry 2006 Mar; 281(10):6219.

  Application: WB-Ce, Mouse, Mouse fibroblasts

- Recruitment of MHC class I molecules by tapasin into the transporter associated with antigen processing-associated complex is essential for optimal peptide loading.

  Tan P, Kropshofer H, Mandelboim O, Bulbuc N, Hammerling GJ, Momburg F.

  The Journal of Immunology 2002 Feb; 168(4):1950.

  Application: IP, WB-Tr, Human, 220.B*4402 cells

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- Interaction of the thiol-dependent reductase ERp57 with nascent glycoproteins.

  Oliver JD, van der Wal FJ, Bulleid NJ, High S.

  Science 1997 Jan; 275(5296):86.

  Application: IP, Dog, Plant, Wheat germ lysate supplemented with canine pancreatic microsomes

Pathway

- Antigen processing and presentation

Disease

- Genetic Predisposition to Disease
- Prostatic Neoplasms

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