

Mouse ERp57 Monoclonal Antibody | anti-ERp57 antibody

ERp57 (GRP58) Antibody

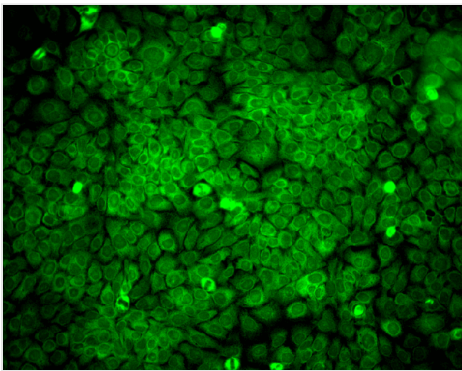
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA253940	Mouse	Human, Mouse, Rat, Bovine, Dog, Guinea Pig, Hamster, Monkey, Pig, Rabbit	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

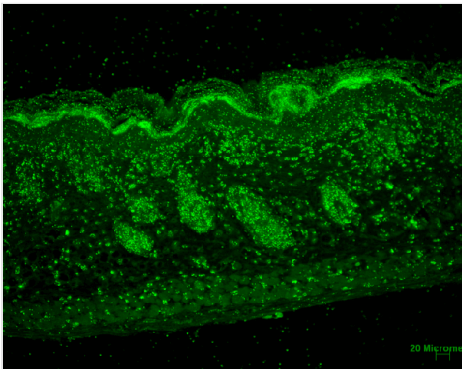
ERp57; Monoclonal Antibody; ERp57 (GRP58) Antibody; Mouse Anti-Human ERp57 (GRP58) Monoclonal IgG1; Clone Map.ERp57 (GRP58); ERp60 Antibody; ERp61 Antibody; Grp57 Antibody; Grp58 Antibody; P58 Antibody; PDIA3 Antibody; PI PLC Antibody; 58 kDa glucose regulated protein antibody; 58 kDa glucose-regulated protein antibody; 58 kDa microsomal protein antibody; Disulfide isomerase ER 60 antibody; Disulfide isomerase ER-60 antibody; Endoplasmic reticulum resident protein 57 antibody; Endoplasmic reticulum resident protein 60 antibody; ER p57 antibody; ER protein 57 antibody; ER protein 60 antibody; ERp 57 antibody; ERp57 antibody; Glucose Regulated Protein 58 Kd antibody; GRP 57 antibody; GRP 58 antibody; GRP57 antibody; HsT17083 antibody; p58 antibody; PDIA 3 antibody; PDIA3 antibody; PDIA3_HUMAN antibody; Phospholipase C alpha antibody; PI PLC antibody; Protein disulfide isomerase A3 antibody; Protein disulfide isomerase family A member 3 antibody; Protein disulfide-isomerase A3 antibody; anti-ERp57 antibody

PRODUCT SPECIFICATIONS

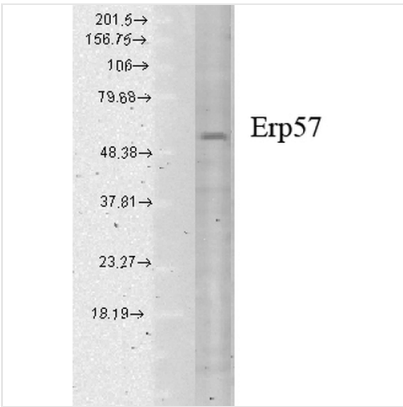
Host	Mouse
Reactivity	Human, Mouse, Rat, Bovine, Dog, Guinea Pig, Hamster, Monkey, Pig, Rabbit
Clonality	Monoclonal
Isotype	IgG1
Clone Number	Map.ERp57
Specificity	Detects ~57kDa.
Purity/Purification	Protein G Purified
Form/Format	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	505
Applicable Applications for anti-ERp57 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Human recombinant ERp57 (Grp58)
Immunogen Species	Human
Conjugate	Unconjugated
Cellular Localization	Endoplasmic Reticulum, Endoplasmic Reticulum Lumen, Melanosome
Certificate of Analysis	0.5 ug/ml of SMC-168 was sufficient for detection of ERp57 in 10 ug of heat shock Heal Lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Preparation and Storage	Store at -20 degree C.



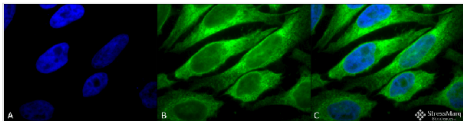
ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Erp57 Monoclonal Antibody, Clone Map.ERP57 . Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20 degree C. Primary Antibody: Mouse Anti-Erp57 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Cytoplasmic and perinuclear staining.



IHC (Immunohistochemistry)
Immunohistochemistry analysis using Mouse Anti-Erp57 Monoclonal Antibody, Clone Map.ERP57 . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Erp57 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermis and Hair Follicles.



WB (Western Blot)
Western Blot analysis of Human cell lysates showing detection of Erp57 protein using Mouse Anti-Erp57 Monoclonal Antibody, Clone Map.ERP57 . Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Erp57 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Erp57 (Grp58) Monoclonal Antibody, Clone Map.ERP57 . Tissue: Heat Shocked cervical cancer cells (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Erp57 (Grp58) Monoclonal Antibody at 1:100 for 12 hours at 4 degree C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Erp57 (Grp58) Antibody. (C) Composite. Heat Shocked at 42 degree C for 1h.

ADDITIONAL INFORMATION

Related Product Information for anti-Erp57 antibody	ERp57, also known as Glucose Regulated Protein 58 (Grp58), Hormone-Induced Protein-70 (HIP-70) and microsomal Carnitine Palmitoyltransferase, is a member of the protein disulfide isomerase family, containing two canonical CXHC tetrapeptide active site motifs (1-5). It has quite a few diverse roles. It functions as an accessory oxidoreductase involved in disulfide bond formation. In the ER, ERp57 interacts with membrane bound calnexin and soluble calreticulin (lectin chaperones) via their praline rich P-domain arms. Lectin chaperones bind nascent non-native glycoproteins, and position ERp57 to act upon the immature or misfolded glycoproteins that possess mono-glycosylated side chains. ERp57 deletion impairs posttranslational phases of influenza hema-glutinin folding, and causes accelerated release of MHC-I molecules, resulting in the coupling of sub-optimal peptides and reduced expression and stability on the cell surface (6). ERp57 also contains two thioredoxin active-site sequences, CGHC and an estrogen-binding domain. ERp57 is induced by both estrogen and leuteinizing-hormone-releasing hormone in the hippocampus (7).
Product Categories/Family for anti-ERp57 antibody	Cell Signaling; Protein Trafficking; ER Proteins
References	1. Herbert D.N. and Molinari M. (2007) Physiol Rev. 87: 1377-1408. 2. Williams D.B. (2005) J Cell Sci. 119: 615-623 3. Maattanen P., et al. (2006) Biochem Cell Biol. 84: 881-889. 4. Oliver J.D., et al. (1999) Mol Bio Cell. 10: 2573-2582. 5. Oliver J.D., et al. (1997) Science 275: 86-88. 6. Solda T., et al. (2006) J Biol Chem 281: 6219-6226. 7. Kimura T., et al. (2005) Biochem Biophys Research Communications. 331 (1): 224-230. 8. Chen, G., et al. (2002) Clin Cancer Res 8(7): 2298-2305. 9. Tan, P., et al. F. (2002) J Immunol 168(4): 1950-1960.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361657
NCBI GeneID	2923
NCBI Accession #	NP_005304.3
NCBI GenBank Nucleotide #	NM_005313.5
UniProt Accession #	P30101
NCBI Official Full Name	protein disulfide-isomerase A3
NCBI Official Synonym Full Names	protein disulfide isomerase family A member 3
NCBI Official Symbol	PDIA3
NCBI Official Synonym Symbols	P58; ER60; ERp57; ERp60; ERp61; GRP57; GRP58; PI-PLC; HsT17083; HEL-S-269; HEL-S-93n
NCBI Protein Information	protein disulfide-isomerase A3
UniProt Protein Name	Protein disulfide-isomerase A3
UniProt Gene Name	PDIA3
UniProt Synonym Gene Names	ERP57; ERP60; GRP58; p58; ER protein 57; ERp57; ER protein 60; ERp60
UniProt Entry Name	PDIA3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/erp57-antibody-clone-map-erp57-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/253940>