SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB0003-200	400 µg
AB0003-500	1 mg

Anti-ERP57

Source: Goat

General description: Goat polyclonal to ERp57 - endoplasmic reticulum lumen marker. This endoplasmic reticulum protein interacts with lectin chaperones calreticulin and calnexin to modulate folding of newly synthesized glycoproteins. It has disulfide isomerase activity and complexes of lectins and this protein mediate protein folding by promoting formation of disulfide bonds in their glycoprotein substrates.

Alternative names: 58 kDa glucose regulated protein, 58 kDa microsomal protein, disulfide isomerase ER 60, endoplasmic reticulum resident protein 57, endoplasmic reticulum resident protein 60, ER protein 57, ER protein 60, ER protein 61, ERP57, ERp60, ERp61, glucose regulated protein 58 Kd, GRP57, GRP58, HsT17083, P58, PDIA3, phospholipase C alpha, PI PLC, protein disulfide isomerase A3 antibody.

Form: Polyclonal antibody supplied as a 200 or 500 µl (2 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Recombinant peptide derived from within residues 300 aa to the C-terminus of human ERp57 produced in E. coli.

Specificity: Detects a band of 60 kDa by Western blot in the following canine, human, monkey, mouse, rat whole cell lysates.

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	+++	ND
Rat	+++	+++	+++	+++	ND
Mouse	+++	+++	+++	+++	ND
Canine	+++	+++	+++	+++	ND
Monkey	+++	+++	+++	+++	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

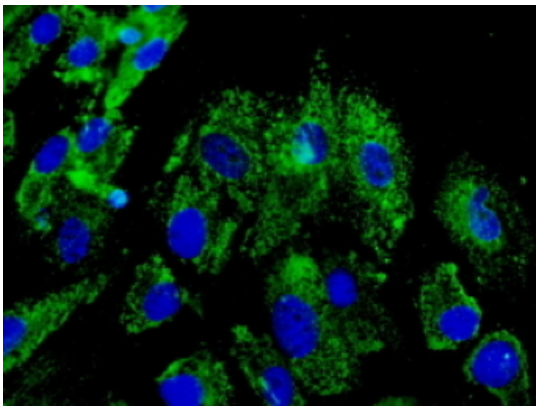
WB:	1:500-1:2,000
IF:	1:50-1:500
IHC (P):	1:200-1:1,000
IHC (F):	1:200-1:1,000

Storage: Store at -20 C for long-term storage. Store at 2-8 C for up to one month.

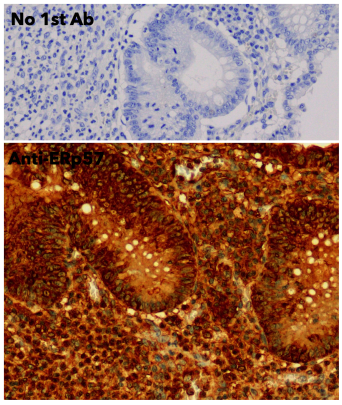
Special instructions: Avoid freeze/thaw cycles..

References:

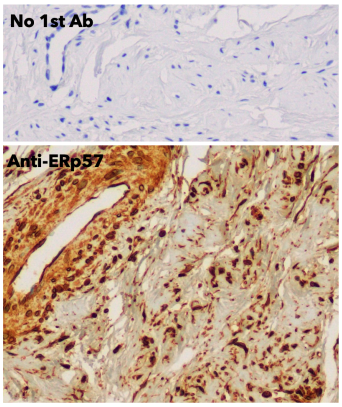
1. 1. Alenquer M, Vale-Costa S, Etibor TA, et al. Nat Commun. 2019 Apr PMID: 30967547
2. 2. Alenquer M, Vale-Costa S, Sousa AL, et al. bioRxiv 410373; Sept 2018



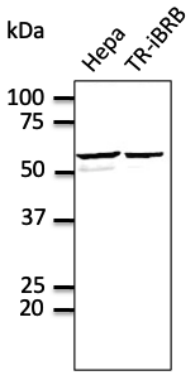
Immunofluorescence – anti-ERP57 Ab in primary RPE cells at 1/100 dilution; cells were fixed with 4% of PFA;



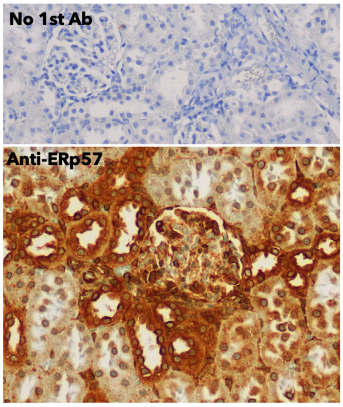
IHC of human appendix using anti-ERp57 antibody and FFPE tissue after heat-induced antigen retrieval; Anti-ERp57 Ab at 1:500/DAB detection;



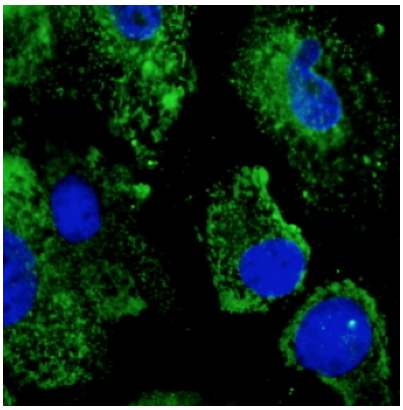
IHC of human cervix using anti-ERp57 antibody and FFPE tissue after heat-induced antigen retrieval; Anti-ERp57 Ab at 1:500/DAB detection;



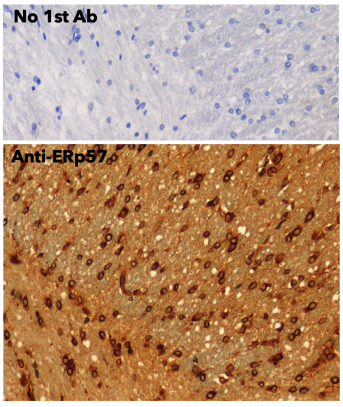
Endogenous ERP57- endoplasmic reticulum lumen marker detected at 1/500 dilution; lysates at 100 µg per lane and rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



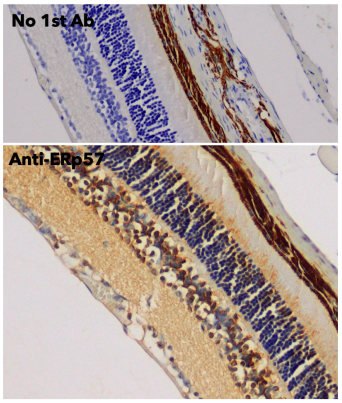
IHC of mouse kidney using anti-ERp57 antibody and FFPE tissue after heat-induced antigen retrieval; Anti-ERp57 Ab at 1:500/DAB detection;



Immunofluorescence – anti-ERP57 Ab in primary RPE cells at 1/100 dilution; cells were fixed with 4% of PFA;



IHC of mouse brain using anti-ERp57 antibody and FFPE tissue after heat-induced antigen retrieval; Anti-ERp57 Ab at 1:500/DAB detection;



IHC of mouse retina using anti-ERp57 antibody and FFPE tissue after heat-induced antigen retrieval; Anti-ERp57 Ab at 1:500/DAB detection;

For research use only, not for diagnostic use

SICGEN's Proprietary Immunogen Policy

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.