



Rabbit Anti-CHERP antibody

SL13898R

Product Name:	CHERP
Chinese Name:	钙稳态内质网蛋白抗体
Alias:	Calcium homeostasis endoplasmic reticulum protein; DAN16; DAN26; ERPROT 213 21; ERPROT21321; Protein with polyglutamine repeat; SCAF6; SR related CTD associated factor 6; SRA1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	104kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CHERP:1-100/916
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The regulation of the intracellular concentration of calcium is important for proper maintenance of voltage-gated ion channels which control muscle and nerve function. Calcium homeostasis is regulated by a variety of proteins. CHERP (calcium homeostasis endoplasmic reticulum protein), also known as SRA1, DAN16 or SCAF6, is a 916 amino acid protein that localizes to the cytoplasm and the endoplasmic reticulum (ER).

Expressed in pancreas, brain, lung, placenta, liver, kidney, heart and skeletal muscle, CHERP is involved in maintaining calcium homeostasis and plays a role in cell growth and proliferation. CHERP contains one G-patch domain, one RPR domain and one SURP motif and is expressed as two isoforms due to alternative splicing events.

Function:

The Calcium homeostasis endoplasmic reticulum protein (CHERP) gene has been recently identified and localized on chromosome 19p13.1. CHERP has high homology to an SR related CTD protein, which is known to interact with the largest subunit of RNA polymerase II. CHERP is an integral endoplasmic reticulum membrane protein is involved in calcium mobilization induced by thrombin. Confocal microscopy revealed that CHERP is associated with Ins(1,4,5)P₃ receptor throughout the cytoplasm and perinuclear region in Jurkat T lymphocyte. CHERP Anti sense treatment induced a decrease in CHERP, which caused an impaired increase in free cytoplasmic calcium but calcium influx remains unaffected, with some deficient in endoplasmic reticulum calcium stores. In the CHERP depleted Jurkat T lymphocytes the calcium dependent translocation of nuclear factor of activated T cells (NFAT) from cytoplasm to nucleus was also suppressed with significant suppression of cell.

Subcellular Location:

Cytoplasm. Cytoplasm; perinuclear region. Endoplasmic reticulum. Note: Distributed throughout the cytoplasm and also localizes to the perinuclear region of both human erythroleukemia (HEL) cells and Jurkat cells. Colocalizes with ITPR1.

Tissue Specificity:

Expressed in brain, placenta, lung, liver, kidney, pancreas, cardiac and skeletal muscle, and in cultured HEL and Dami cells.

Similarity:

Contains 1 CID domain.
Contains 1 G-patch domain.
Contains 1 SURP motif repeat.

SWISS:

Q8IWX8

Gene ID:

10523

Database links:

[Entrez Gene: 10523](#) Human

[Entrez Gene: 27967](#) Mouse

[Entrez Gene: 290614](#) Rat

[SwissProt: Q8IWX8](#) Human

[SwissProt: Q8CGZ0](#) Mouse

[Unigene: 631627](#) Human

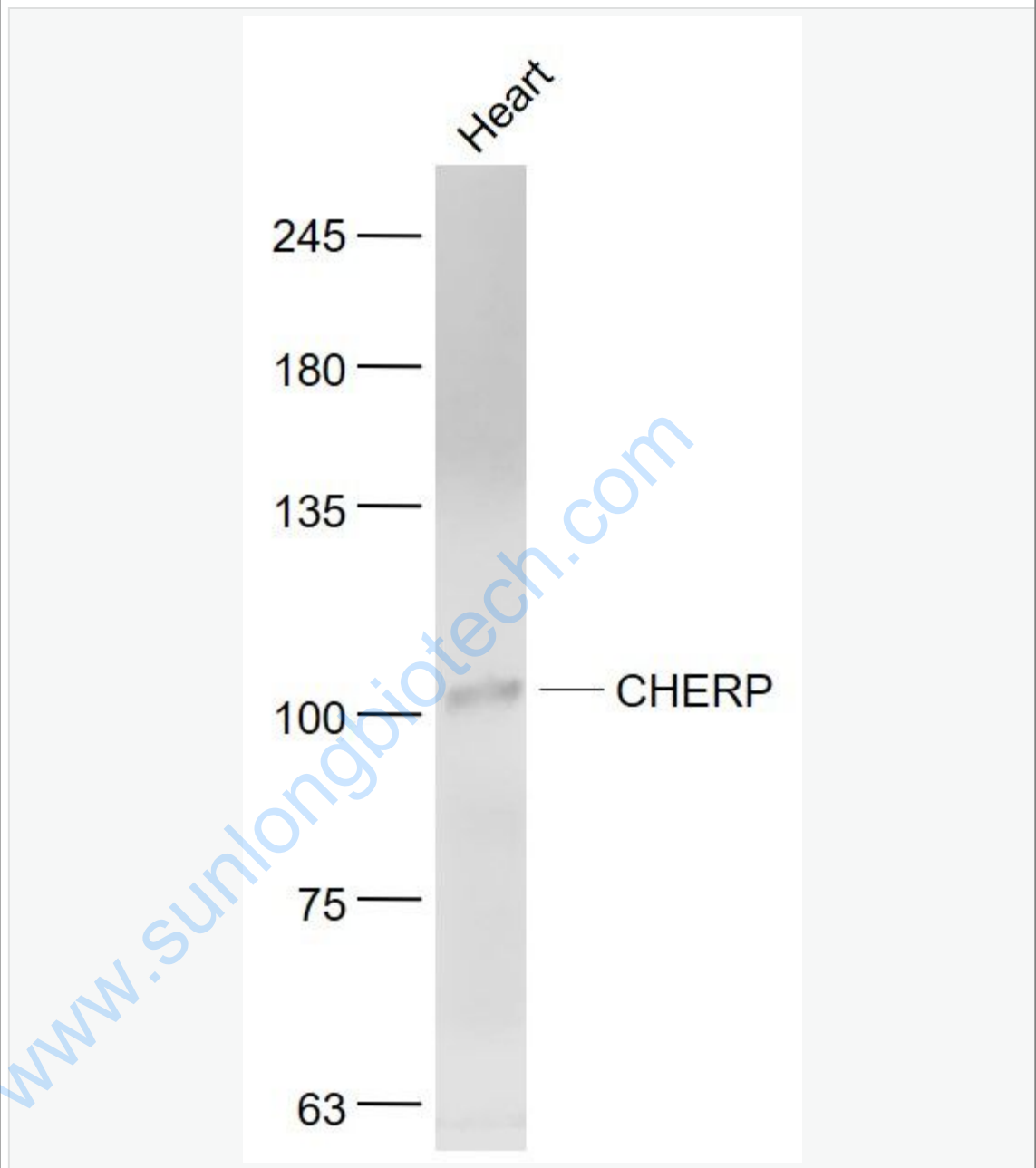
[Unigene: 30136](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

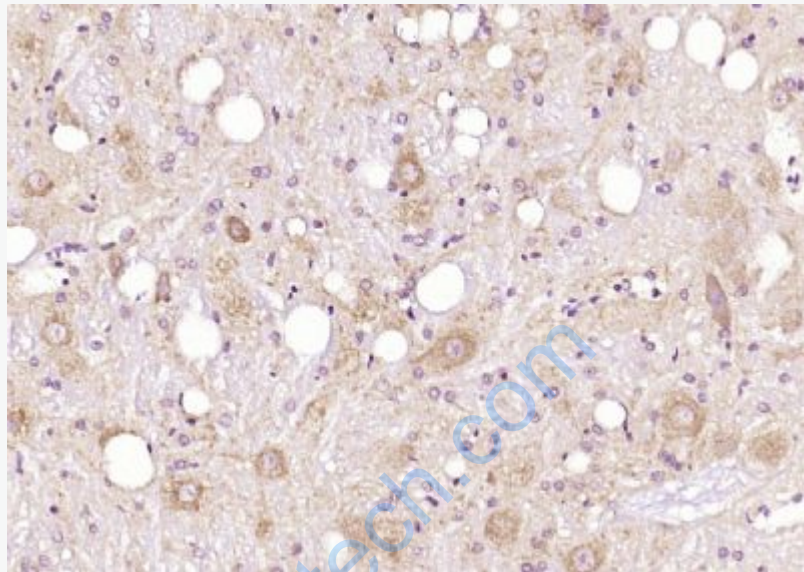
Heart (Mouse) Lysate at 40 ug

Primary: Anti- CHERP (SL13898R) at 1/1000 dilution

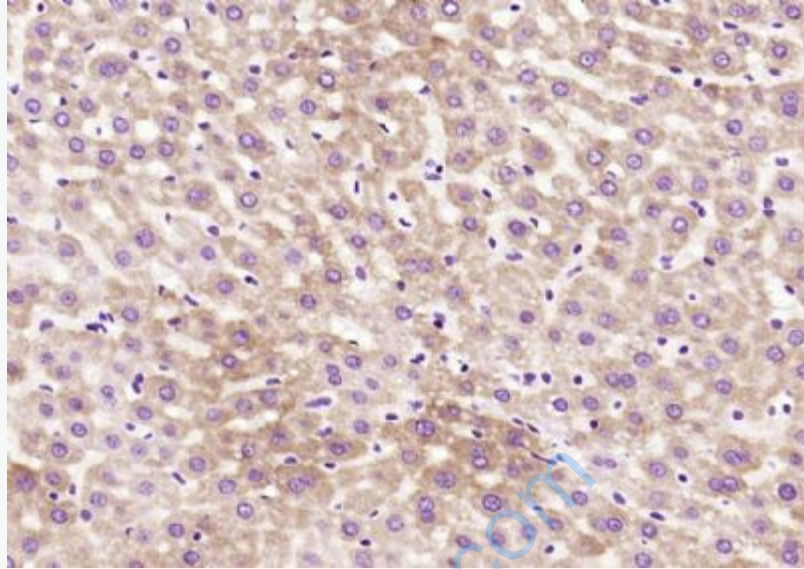
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 104 kD

Observed band size: 104 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CHERP) Polyclonal Antibody, Unconjugated (SL13898R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CHERP) Polyclonal Antibody, Unconjugated (SL13898R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.