

HRC Rabbit pAb

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Catalog # AP56682

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P23327
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80244
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HRC
Epitope Specificity	21-120/699
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Sarcoplasmic reticulum lumen.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HRC is a 699 amino acid that binds low-density lipoprotein with high affinity. As a high capacity calcium binding protein, HRC regulates the sequestration and release of calcium in the lumen of the junctional sarcoplasmic reticulum (SR) of cardiac, skeletal and smooth muscle. This mechanism may involve direct interaction between HRC and the cytoplasmic domain of Triadin, an integral membrane protein of the SR. The gene encoding HRC maps to human chromosome 19q13.33 and mouse chromosome 7 B4

Additional Information

Gene ID	3270
Other Names	Sarcoplasmic reticulum histidine-rich calcium-binding protein, HRC, HCP
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

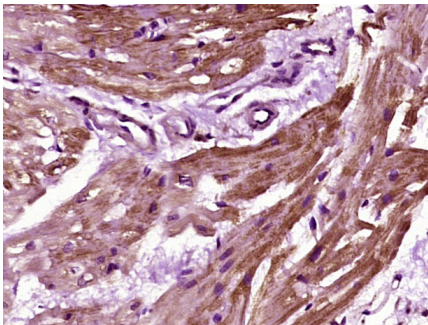
Name	HRC
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Synonyms	HCP
Function	May play a role in the regulation of calcium sequestration or release in the SR of skeletal and cardiac muscle.
Cellular Location	Sarcoplasmic reticulum lumen.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human heart tissue); 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 (HRC) Polyclonal Antibody, Unconjugated (AP56682) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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