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CIAPIN1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58307

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q6FI81
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33582
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CIAPIN1
Epitope Specificity	51-150/312
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	Cytoplasm. Nucleus.
SIMILARITY	Belongs to the anamorsin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CIAPIN1 (Cytokine induced apoptosis inhibitor 1) expression is dependent on growth factor stimulation. Overexpression confers resistance to apoptosis caused by IL3 deprivation. It may be required during hematopoiesis to mediate antiapoptotic effects of various cytokines. It also confers multidrug resistance in gastric cancer cells by upregulating the expression of MDR1 and MRP1.

Additional Information

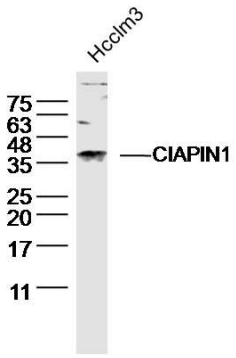
Gene ID	57019
Other Names	Anamorsin {ECO:0000255|HAMAP-Rule:MF_03115}, Cytokine-induced apoptosis inhibitor 1 {ECO:0000255|HAMAP-Rule:MF_03115}, Fe-S cluster assembly protein DRE2 homolog {ECO:0000255|HAMAP-Rule:MF_03115}, CIAPIN1 {ECO:0000255|HAMAP-Rule:MF_03115}
Target/Specificity	Ubiquitously expressed. Highly expressed in heart, liver and pancreas.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

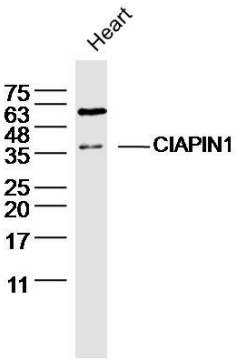
Protein Information

Name	CIAPIN1 {ECO:0000255|HAMAP-Rule:MF_03115}
Function	Component of the cytosolic iron-sulfur (Fe-S) protein assembly (CIA) machinery required for the maturation of extramitochondrial Fe-S proteins. Part of an electron transfer chain functioning in an early step of cytosolic Fe-S biogenesis, facilitating the de novo assembly of a [4Fe-4S] cluster on the scaffold complex NUBP1-NUBP2. Electrons are transferred to CIAPIN1 from NADPH via the FAD- and FMN-containing protein NDOR1 (PubMed:23596212). NDOR1-CIAPIN1 are also required for the assembly of the diferric tyrosyl radical cofactor of ribonucleotide reductase (RNR), probably by providing electrons for reduction during radical cofactor maturation in the catalytic small subunit (By similarity). Has anti-apoptotic effects in the cell. Involved in negative control of cell death upon cytokine withdrawal. Promotes development of hematopoietic cells (By similarity).
Cellular Location	Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03115, ECO:0000269|PubMed:16957168, ECO:0000269|PubMed:29848660}. Nucleus {ECO:0000255|HAMAP-Rule:MF_03115, ECO:0000269|PubMed:16957168} Mitochondrion intermembrane space {ECO:0000255|HAMAP-Rule:MF_03115, ECO:0000269|PubMed:21700214}
Tissue Location	Ubiquitously expressed. Highly expressed in heart, liver and pancreas.

Images



Sample: Hcclm3 (human)cell Lysate at 40 ug
Primary: Anti- CIAPIN1(AP58307)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34kD
Observed band size: 36 kD



Sample: Heart (mouse) Cell Lysate at 40 ug
Primary: Anti- CIAPIN1(AP58307)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 34kD
Observed band size: 36 kD