

Rabbit CLPX Polyclonal Antibody | anti-CLPX antibody

CLPX Antibody (C-term)

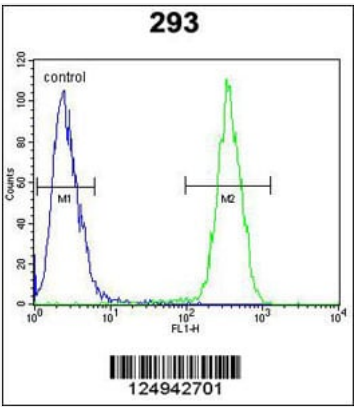
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285094	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

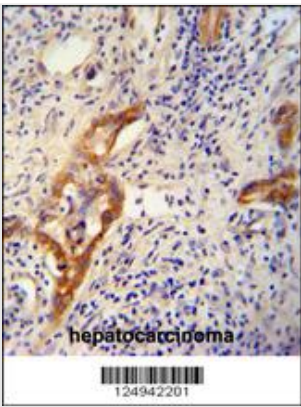
CLPX; Polyclonal Antibody; CLPX Antibody (C-term); ATP-dependent Clp protease ATP-binding subunit clpX-like; mitochondrial; anti-CLPX antibody

PRODUCT SPECIFICATIONS

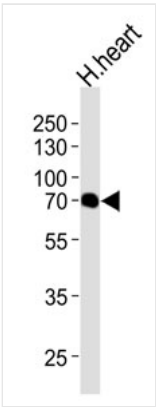
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CLPX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 449-477 amino acids from the C-terminal region of human CLPX.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	633
Applicable Applications for anti-CLPX antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Antigen Region	449-477
Cellular location	Mitochondrion. Mitochondrion matrix, mitochondrion nucleoid
Tissue location	Higher expression in skeletal muscle and heart and to a lesser extent in liver, brain,placenta, lung, kidney and pancreas.
Precautions	CLPX Antibody (C-term)is for research use only
Function	Name CPX FunctionATP-dependent specificity comp onent of the Clp protease complex. Hydrolyzes ATP.Targets specific substrates for degradation by the Clp complex (PubMed: , PubMed:22710082). Can perform chaperone functions in the absence of CLPP. Enhances the DNA-binding activity of TFAM and is required for maintaining anormal mitochondrial nucleoid structure (PubMed:). ATP-dependent unfoldase that stimulates theincorporation of the pyridoxal phosphate cofactor into 5-aminolevulinate synthase,thereby activating 5-aminolevulinate (ALA)synthesis, the first step in heme biosynthesis.Important for efficient erythropoiesis through upregulation of heme biosynthesis(PubMed:).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
CLPX Antibody (C-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
CLPX antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CLPX antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from human heart tissue lysate, using CLPX Antibody (C-term). AAA285094 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-CLPX antibody	ATP-dependent specificity component of the Clp protease. It directs the protease to specific substrates. Can perform chaperone functions in the absence of clpP (By similarity).
Product Categories/Family for anti-CLPX antibody	Cell Biology; Metabolism; Signal transduction
References	Martin, A., et al. Mol. Cell 29(4):441-450(2008) Bogenhagen, D.F., et al. J. Biol. Chem. 283(6):3665-3675(2008) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Kang, S.G., et al. J. Biol. Chem. 280(42):35424-35432(2005) Kang, S.G., et al. J. Biol. Chem. 277(23):21095-21102(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	7242140
NCBI GeneID	10845
NCBI Accession #	NP_006651.2
NCBI GenBank Nucleotide #	NM_006660.3
UniProt Accession #	O76031; Q9H4D9; A1L428; A8K8F1; B9EGI8

NCBI Official Full Name	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
NCBI Official Synonym Full Names	caseinolytic mitochondrial matrix peptidase chaperone subunit
NCBI Official Symbol	CLPX
NCBI Protein Information	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
UniProt Protein Name	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial
UniProt Gene Name	CLPX
UniProt Entry Name	CLPX_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://www.aaabiotech.com/polyclonal/clpx-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285094>