

CLPX antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14959**Specification**

CLPX antibody - C-terminal region - Product Information

Application	WB
Primary Accession	O76031
Other Accession	NM_006660 , NP_006651
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70kDa kDa

CLPX antibody - C-terminal region - Additional Information**Gene ID** 10845**Other Names**

ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial, CLPX

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CLPX antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CLPX antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CLPX antibody - C-terminal region - Protein Information**Name** CLPX ([HGNC:2088](#))**Function**

ATP-dependent chaperone that functions as an unfoldase. As part of the ClpXP protease complex, it recognizes specific protein substrates, unfolds them using energy derived from ATP hydrolysis, and then translocates them to the proteolytic subunit (CLPP) of the ClpXP complex for degradation (PubMed: [11923310](http://www.uniprot.org/citations/11923310), PubMed: [22710082](http://www.uniprot.org/citations/22710082), PubMed: [28874591](http://www.uniprot.org/citations/28874591)). Thanks to its chaperone activity, it also functions in the incorporation of the pyridoxal phosphate cofactor into 5- aminolevulinate synthase, thereby activating 5-aminolevulinate (ALA) synthesis,

the first step in heme biosynthesis (PubMed:28874591). This chaperone is also involved in the control of mtDNA nucleoid distribution, by regulating mitochondrial transcription factor A (TFAM) activity (PubMed:22841477).

Cellular Location

Mitochondrion. Mitochondrion matrix, mitochondrion nucleoid

Tissue Location

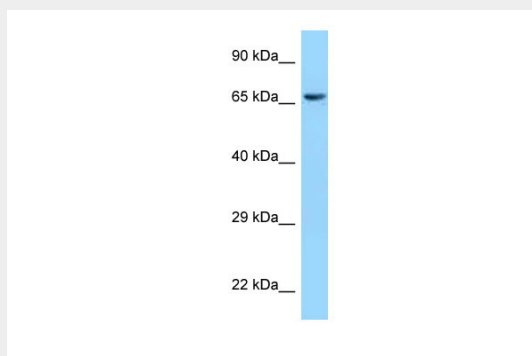
Higher expression in skeletal muscle and heart and to a lesser extent in liver, brain, placenta, lung, kidney and pancreas.

CLPX antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

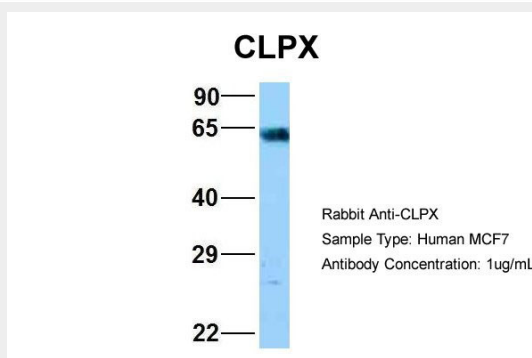
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CLPX antibody - C-terminal region - Images



WB Suggested Anti-CLPX Antibody Titration: 1.0 µg/ml

Positive Control: 293T Whole CellCLPX is supported by BioGPS gene expression data to be expressed in HEK293T

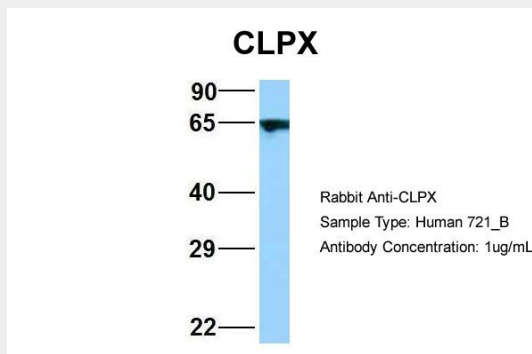


Host: Rabbit

Target Name: NOP56

Sample Tissue: MCF7

Antibody Dilution: 1.0µg/mlCLPX is supported by BioGPS gene expression data to be expressed in MCF7

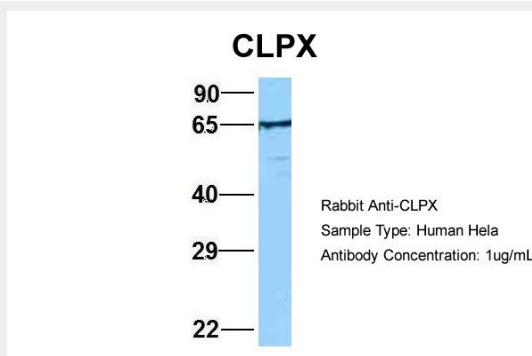


Host: Rabbit

Target Name: WT1

Sample Tissue: 721_B

Antibody Dilution: 1.0µg/mlCLPX is supported by BioGPS gene expression data to be expressed in 721_B



Host: Rabbit

Target Name: EGFL8

Sample Tissue: HeLa

Antibody Dilution: 1.0µg/mlCLPX is supported by BioGPS gene expression data to be expressed in HeLa

CLPX antibody - C-terminal region - References

Corydon T.J.,et al.Mamm. Genome 11:899-905(2000).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Kang S.G.,et al.J. Biol. Chem. 277:21095-21102(2002).

Kang S.G.,et al.J. Struct. Biol. 148:338-352(2004).