10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-CLPP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2328

Product Information

Application	WB, FC, ICC
Primary Accession	Q16740
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 1865
Calculated MW	30180
Gene Name	CLPP
Aliases	CLPP; Caseinolytic Mitochondrial Matrix Peptidase Proteolytic Subunit; ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; Endopeptidase Clp; EC 3.4.21.92; ClpP (Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit, E. Coli) Homolog; ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli); ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli); ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog; ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog; Putative ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; ATP-Dependent Protease ClpAP (E. Coli), Proteolytic Subunit, Human; ClpP Caseinolytic Peptidase ATP-Dependent, Proteolytic Subunit; ATP-Dependent; Protease ClpAP, Proteolytic Subunit, Human; DFNB81; PRLTS3
Immunogen	A synthesized peptide derived from human CLPP

Additional Information

Gene ID	8192
Other Names	ATP-dependent Clp protease proteolytic subunit, mitochondrial, 3.4.21.92, Caseinolytic mitochondrial matrix peptidase proteolytic subunit {ECO:0000312|HGNC:HGNC:2084}, Endopeptidase Clp, CLPP (HGNC:2084)

Protein Information

Name	CLPP (HGNC:2084)
Function	Protease component of the ClpXP complex that cleaves peptides and various proteins in an ATP-dependent process. Has low peptidase activity in the absence of CLPX. The ClpXP complex can degrade CSN1S1, CSN2 and CSN3, as well as synthetic peptides (in vitro) and may be responsible for a fairly general and central housekeeping function rather than for the degradation of specific substrates (PubMed:11923310, PubMed:15522782). Cleaves PINK1 in the mitochondrion (PubMed:22354088).

Cellular Location	Mitochondrion matrix
Tissue Location	Detected in liver (at protein level). Predominantly expressed in skeletal muscle. Intermediate levels in heart, liver and pancreas. Low in brain, placenta, lung and kidney