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

Anti-LONP2 Antibody

Catalog # AP53352

Product Information

Application	WB, IHC
Primary Accession	Q86WA8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	94617

Additional Information

Gene ID	83752
Other Names	LONP; Lon protease homolog 2, peroxisomal; Lon protease-like protein 2; Lon protease 2; Peroxisomal Lon protease
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human LONP2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

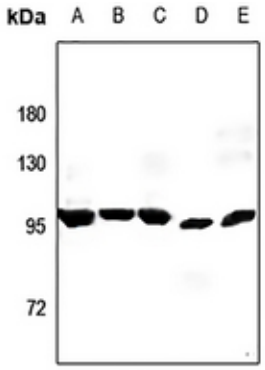
Protein Information

Name	LONP2 {ECO:0000255|HAMAP-Rule:MF_03121}
Synonyms	LONP
Function	ATP-dependent serine protease that mediates the selective degradation of misfolded and unassembled polypeptides in the peroxisomal matrix. Necessary for type 2 peroxisome targeting signal (PTS2)-containing protein processing and facilitates peroxisome matrix protein import (By similarity). May indirectly regulate peroxisomal fatty acid beta-oxidation through degradation of the self-processed forms of TYSND1.
Cellular Location	Peroxisome matrix {ECO:0000255|HAMAP- Rule:MF_03121, ECO:0000269|PubMed:14561759, ECO:0000269|PubMed:18281296, ECO:0000269|PubMed:22002062}
Tissue Location	Widely expressed, with high levels in the liver, kidney and pancreas.

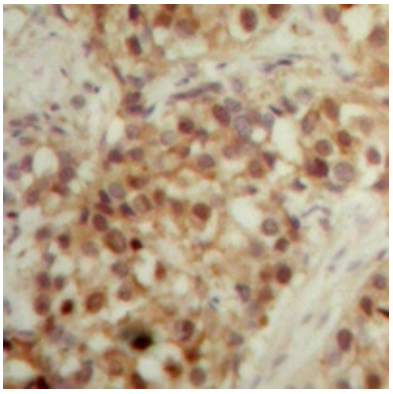
References

De Walque S.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Martin J.,et al.Nature 432:988-994(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Kikuchi M.,et al.J. Biol. Chem. 279:421-428(2004).

Images



Western blot analysis of LONP2 expression in A549 (A), A2780 (B), HEK293T (C), AML12 (D), H9C2 (E) whole cell lysates. (Predicted band size: 94 kD; Observed band size: 95 kD)



Immunohistochemical analysis of LONP2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.