

# LONP2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP53352

## Product Information

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q86WA8</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 94617                  |

## Additional Information

|                    |   |
|--------------------|---|
| Gene ID            | 83752   |
| Other Names        | Lon protease homolog 2, peroxisomal<br>{ECO:0000255 HAMAP-Rule:MF_03121}, 3.4.21.-<br>{ECO:0000255 HAMAP-Rule:MF_03121}, Lon protease-like protein 2<br>{ECO:0000255 HAMAP-Rule:MF_03121}, Lon protease 2<br>{ECO:0000255 HAMAP-Rule:MF_03121}, Peroxisomal Lon protease<br>{ECO:0000255 HAMAP-Rule:MF_03121}, LONP2<br>{ECO:0000255 HAMAP-Rule:MF_03121}, LONP |
| 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   |
| Format             | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol   |
| 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. |

|                          |   |
|--------------------------|---|
| <b>Cellular Location</b> | Peroxisome matrix {ECO:0000255 HAMAP- Rule:MF_03121, ECO:0000269 PubMed:14561759, ECO:0000269 PubMed:18281296, ECO:0000269 PubMed:22002062} |
| <b>Tissue Location</b>   | Widely expressed, with high levels in the liver, kidney and pancreas.   |

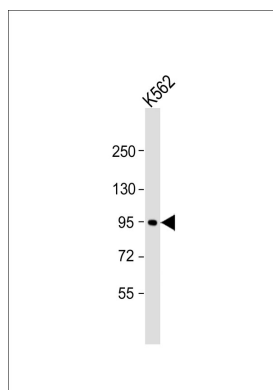
## Background

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.

## 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



Anti-LONP2 Antibody at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 95 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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