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LONP2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9625a

Product Information

Application	WB, E
Primary Accession	Q86WA8
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23667
Calculated MW	94617
Antigen Region	104-132

Additional Information

Gene ID	83752
Other Names	Lon protease homolog 2, peroxisomal {ECO:0000255|HAMAP-Rule:MF_03121}, 3421- {ECO:0000255|HAMAP-Rule:MF_03121}, Lon protease-like protein 2 {ECO:0000255|HAMAP-Rule:MF_03121}, Lon protease 2 {ECO:0000255|HAMAP-Rule:MF_03121}, Peroxisomal Lon protease {ECO:0000255|HAMAP-Rule:MF_03121}, LONP2 {ECO:0000255|HAMAP-Rule:MF_03121}, LONP
Target/Specificity	This LONP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-132 amino acids from the N-terminal region of human LONP2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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.
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.
Precautions	LONP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

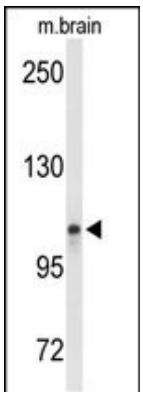
Background

LONP2 is probable serine protease which may be involved in peroxisome biogenesis (By similarity).

References

Omi, S., et al. J. Biochem. 143(5):649-660(2008)
Kikuchi, M., et al. J. Biol. Chem. 279(1):421-428(2004)

Images



Western blot analysis of LONP2 Antibody (N-term) (Cat. #AP9625a) in mouse brain tissue lysates (35ug/lane). LONP2 (arrow) was detected using the purified Pab.