For Research Use Only

LONP1 Monoclonal antibody, PBS Only



Catalog Number: 66043-1-PBS

Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method: Protein G purification

66043-1-PBS

GeneID (NCBI):

Size: 1mg/ml

9361 **UNIPROT ID:**

BC000235

CloneNo.: 1C6C12

Source: Mouse Isotype:

lon peptidase 1, mitochondrial

lgG1 Immunogen Catalog Number:

Calculated MW: 106 kDa

P36776

Full Name:

AG7306

Observed MW:

100 kDa

Applications

Tested Applications:

WB, IF, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

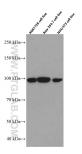
LONP1(Lon protease homolog, mitochondrial) is also named as LONP, LONHS, HLON, LON, PRSS15, PIM1, MGC1498 and belongs to the peptidase S16 family. It seems to play a major role in the elimination of oxidatively modified proteins in the mitochondrial matrix (PMID:18021745). LONP1, also a nuclearly encoded and mitochondrially located stress-responsive protease, is involved in heme-mediated ALAS-1 turnover(PMID:21659532). It recognizes specific surface determinants or folds, initiates proteolysis at solvent-accessible sites, and generates unfolded polypeptides that are then processively degraded (PMID:15870080).

Storage

Store at -80°C.

Storage Buffer: PBS Only

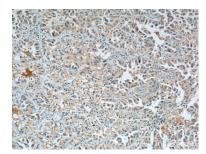
Selected Validation Data



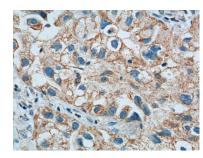
Various lysates were subjected to SDS PAGE followed by western blot with 66043-1-lg (LONP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.



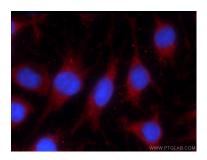
Jurkat cells were subjected to SDS PAGE followed by western blot with 66043-1-Ig (LONP1 Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.



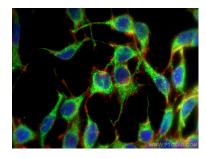
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66043-1-lg (LONP1 Antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 66043-1-lg (LONP1 Antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of C6 cells using 66043-1-Jg (LONP1 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Mouse IgG. This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed C6 cells using LONP1 antibody (66043-1-lg, Clone: 1C6C12) at dilution of 1:200 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 66043-1-PBS in a different storage buffer formulation.