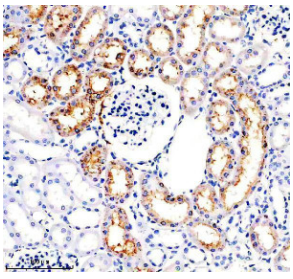
Legumain Antibody / Asparaginyl Endopeptidase Antibody [clone 23L04] (FY13472)

Catalog No.	Formulation	Size
FY13472	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol	100 ul

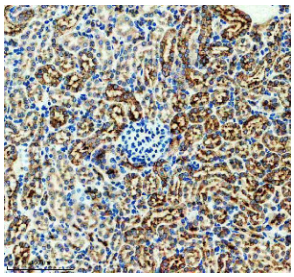
Recombinant RABBIT MONOCLONAL

Bulk quote request

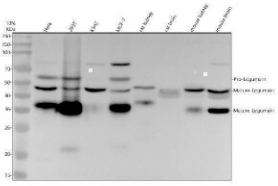
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	23L04
Purity	Affinity purification
UniProt	Q99538
Applications	Western blot: 1:500-1:2000 Immunohistochemistry (FFPE): 1:50-1:200
Limitations	This Legumain Antibody / Asparaginyl Endopeptidase Antibody is available for research use only.



Legumain Antibody Rat Kidney IHC. Immunohistochemistry staining of FFPE rat kidney tissue with Legumain Antibody at 1:50 dilution. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-Legumain antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. Legumain Antibody / Asparaginyl Endopeptidase Antibody demonstrates strong tubular staining consistent with LGMN expression and supports studies of lysosomal protease activity, protein processing and cellular regulation pathways.



Legumain Antibody Mouse Kidney IHC. Immunohistochemistry staining of FFPE mouse kidney tissue with Legumain Antibody at 1:50 dilution. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-Legumain antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. Legumain Antibody / Asparaginyl Endopeptidase Antibody demonstrates strong renal tubular staining consistent with LGMN expression and supports studies of lysosomal cysteine protease activity, protein processing and cell biology pathways.



Legumain Antibody Human, Mouse and Rat WB. Western blot testing of human HeLa, human 293T, human K562, human MCF-7, rat kidney, rat brain, mouse kidney and mouse brain lysates with Legumain Antibody at 1:500 dilution. Lane 1: human HeLa; Lane 2: human 293T; Lane 3: human K562; Lane 4: human MCF-7; Lane 5: rat kidney; Lane 6: rat brain; Lane 7: mouse kidney; Lane 8: mouse brain. Multiple bands were detected corresponding to pro-Legumain and mature Legumain forms generated through proteolytic processing. Legumain Antibody / Asparaginyl Endopeptidase Antibody supports studies of lysosomal cysteine protease activity, protein maturation and cellular regulation pathways.

Description

Legumain Antibody / Asparaginyl Endopeptidase Antibody detects LGMN, a lysosomal cysteine protease that specifically cleaves protein substrates after asparagine residues. Also known as AEP, Legumain belongs to the peptidase C13 family and functions in protein processing, lysosomal degradation pathways and regulation of cellular protease activity. This recombinant rabbit monoclonal antibody, clone 23L04, provides researchers with a tool for examining Legumain expression and localization in studies involving lysosomal biology, immune regulation and disease-associated protease activity.

Legumain is synthesized as an inactive precursor protein that undergoes proteolytic activation within acidic intracellular compartments such as lysosomes. Active asparaginyl endopeptidase participates in processing a variety of protein substrates and contributes to normal cellular protein turnover. Legumain has also been studied for its role in antigen processing, where lysosomal protease activity influences peptide generation and immune pathway regulation. Legumain Antibody is commonly used by researchers studying cysteine proteases, lysosome function, protein maturation and intracellular degradation pathways.

Research involving Legumain has demonstrated important connections between protease regulation, inflammation and cancer biology. Altered LGMN expression has been investigated in multiple tumor types, where this protease may contribute to extracellular matrix remodeling, tumor microenvironment interactions and cancer-associated cellular processes. Legumain expression has also been studied in immune cell populations, including macrophage-related research models, highlighting its relevance in both cancer and immunology studies.

As a member of the asparaginyl endopeptidase family, Legumain provides insight into how specialized proteases regulate cellular homeostasis and signaling environments. Detection of LGMN expression supports investigations into lysosomal pathways, protease activation mechanisms and biological systems where controlled protein cleavage is required. Recombinant rabbit monoclonal Legumain Antibody clone 23L04 enables analysis of this important cysteine protease across different experimental models.

Legumain Antibody applications include detection of LGMN expression, localization and regulation in biological samples using techniques such as Western blot, immunohistochemistry, immunofluorescence and related protein analysis methods. NSJ Bioreagents provides Legumain Antibody / Asparaginyl Endopeptidase Antibody, clone 23L04, for researchers studying lysosomal protease function, antigen processing, cancer biology and immune regulation pathways.

Legumain Antibody detects an asparaginyl endopeptidase involved in lysosomal protein processing, antigen regulation and tumor-associated protease activity, making it a useful marker for research areas featured in our Cell Biology Antibodies and Cancer Antibodies pages.

Application Notes

Optimal dilution of the Legumain Antibody / Asparaginyl Endopeptidase Antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human LGMN protein was used as the immunogen for the Legumain Antibody.

Storage

Store the Legumain Antibody at -20oC for one year, or at 4oC for one month.

Alternate Names

LGMN Antibody, AEP Antibody, Asparaginyl Endopeptidase Antibody, Cysteine Protease Legumain Antibody, Lysosomal Protease Antibody, Protease C13 Family Antibody

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