

bs-3907R**[Primary Antibody]**

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www.bioss.com.cn

sales@bioss.com.cn

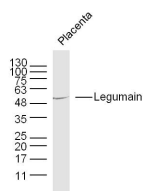
techsupport@bioss.com.cn

400-901-9800

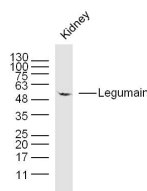
Legumain Rabbit pAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 5641**SWISS:** Q99538**Target:** Legumain**Immunogen:** KLH conjugated synthetic peptide derived from human Legumain: 201-300/433.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

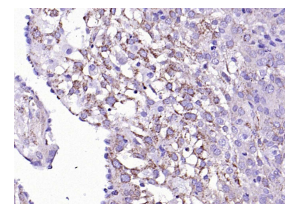
Background: This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform. [provided by RefSeq, Jul 2008].

Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (3ug/Test)**Reactivity:** Human, Mouse, Rat
(predicted: Cow, Dog, Horse)**Predicted MW.:** 46 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

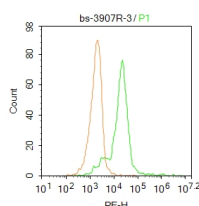
Sample: Placenta (Mouse) Lysate at 40 ug
Primary: Anti-Legumain (bs-3907R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 46 kD
Observed band size: 55 kD



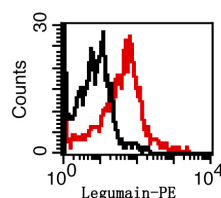
Sample: Kidney (Mouse) Lysate at 40 ug
Primary: Anti-Legumain (bs-3907R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 46 kD
Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Legumain) Polyclonal Antibody, Unconjugated (bs-3907R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: HL60. Primary Antibody (green)



Overlay histogram showing Mouse spleen cells

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

line): Rabbit Anti-Legumain antibody (bs-3907R)
Dilution: 3µg /10⁶ cells; Isotype Control
Antibody (orange line): Rabbit IgG . Secondary
Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg
/test. Protocol The cells were fixed with 4% PFA
(10min at room temperature)and then
permeabilized with PBST for 20 min at room
temperature. The cells were then incubated in
5%BSA to block non-specific protein-protein
interactions for 30 min at at room temperature
.Cells stained with Primary Antibody for 30 min
at room temperature. The secondary antibody
used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

stained with bs-3907-PE (red line). The cells were
fixed with 1% paraformaldehyde (10 min).The
cells were then incubated with the antibody
(bs-3907R-PE, 2ug/1x10⁶cells) for 30 min at
22-25°C. Isotype control antibody (black line)
was rabbit IgG (2ug/1x10⁶cells) used under the
same conditions. Acquisition of events were
used for analysis.

— SELECTED CITATIONS —

- **[IF=5.988]** Liu Hauge. et al. Number 2 Feibi Recipe Ameliorates Pulmonary Fibrosis by Inducing Autophagy Through the GSK-3β/mTOR Pathway. FRONT PHARMACOL. 2022 Jul;0:2714 IHC,WB ;Mouse. 35903328
- **[IF=3.6]** Severin K. Lustenberger. et al. Towards imaging the immune state of cancer by PET: Targeting legumain with 11C-labeled P1-Asn peptidomimetics carrying a cyano-warhead. NUCL MED BIOL. 2024 Nov;138-139:108951 IF ;Mouse. 39303441
- **[IF=2.65]** Hauge Liu. et al. Calycosin Ameliorates Bleomycin-Induced Pulmonary Fibrosis via Suppressing Oxidative Stress, Apoptosis, and Enhancing Autophagy. EVID-BASED COMPL ALT. 2022 Oct 11;2022:9969729 WB ;Mouse. 36267093