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

Legumain Rabbit pAb

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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].

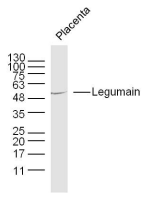
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (3ug/Test)

Reactivity: Human, Mouse (predicted: Rat, Cow, Dog, Horse)

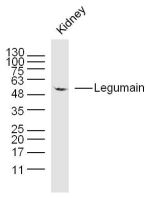
Predicted MW.: 46 kDa

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



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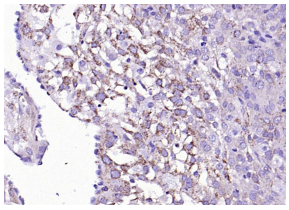
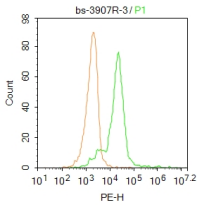


Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Legumain) Polyclonal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



Blank control: HL60. Primary Antibody (green

line): Rabbit Anti-Legumain antibody (bs-3907R) Dilution: 3µg /10^6 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.

SELECTED CITATIONS

- **[IF=5.988]** Liu Haoge. 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]** Haoge 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