

Legumain (H-300): sc-67163

BACKGROUND

Legumain is one of the main storage proteins located in pea seed vacuoles, and it is a characteristic ingredient of the seeds of leguminous and nonleguminous plants. Legumain is an albuminous substance that resembles casein and functions as the source of sulfur-containing amino acids in seed meals. A number of paralogous genes encode for Legumain, and the polypeptides are cleaved posttranslationally and can form mixed hexamers. The regulation of the Legumain is under developmental control and is influenced by the changing environment. The molecules of Legumain are able to group together and form nanoparticles and can chemically cross-link with glutaraldehyde. Legumain is a potent inducer of a cytostatic phenomenon that promotes the increase of the chromatin condensation.

CHROMOSOMAL LOCATION

Genetic locus: LGMN (human) mapping to 14q32.12; Lgmn (mouse) mapping to 12 E.

SOURCE

Legumain (H-300) is a rabbit polyclonal antibody raised against amino acids 21-320 mapping near the N-terminus of Legumain of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Legumain (H-300) is recommended for detection of precursor and mature Legumain of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Legumain (H-300) is also recommended for detection of precursor and mature Legumain in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Legumain siRNA (h): sc-60930, Legumain siRNA (m): sc-60931, Legumain shRNA Plasmid (h): sc-60930-SH, Legumain shRNA Plasmid (m): sc-60931-SH, Legumain shRNA (h) Lentiviral Particles: sc-60930-V and Legumain shRNA (m) Lentiviral Particles: sc-60931-V.

Molecular Weight of Legumain precursor: 56 kDa.

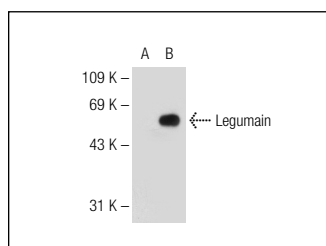
Molecular Weight of active Legumain: 46 kDa.

Positive Controls: Legumain (h): 293 Lysate: sc-159634, KNRK whole cell lysate: sc-2214 or Caki-1 cell lysate: sc-2224.

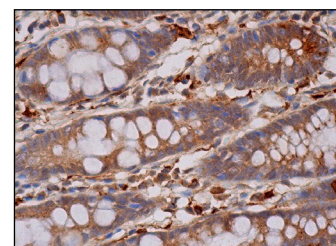
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Legumain (H-300): sc-67163. Western blot analysis of Legumain expression in non-transfected: sc-110760 (A) and human Legumain transfected: sc-159634 (B) 293 whole cell lysates.



Legumain (H-300): sc-67163. Immunoperoxidase staining of formalin fixed, paraffin-embedded human rectum tissue showing cytoplasmic staining of glandular cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **Legumain (B-8): sc-133234** or **Legumain (F-10): sc-271312**, our highly recommended monoclonal alternatives to Legumain (H-300).