

Anti-Calpastatin Picoband Antibody

Catalog # ABO10059

Product Information

Application	WB, IHC-P
Primary Accession	P20810
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Calpastatin(CAST) detection. Tested with WB, IHC-P in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	831
Other Names	Calpastatin, Calpain inhibitor, Sperm BS-17 component, CAST
Calculated MW	76573
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human
Source	Eukaryota
Protein Name	Calpastatin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Calpastatin (275-310aa QEKKRKVEKDTMSDQALEALSASLGTRQAEPELDLR), different from the related mouse sequence by fifteen amino acids, and from the related rat sequence by eleven amino
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	CAST
Function	Specific inhibition of calpain (calcium-dependent cysteine protease). Plays a key role in postmortem tenderization of meat and have been proposed to be involved in muscle protein degradation in living tissue.

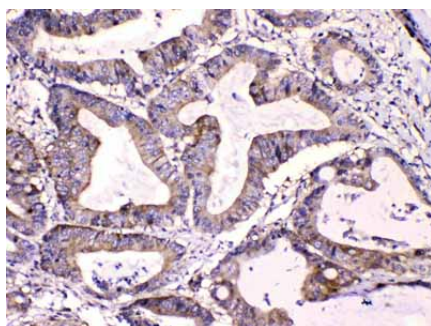
Background

Calpastatin is a protein that in humans is encoded by the CAST gene. It is mapped to 5q15. The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described.

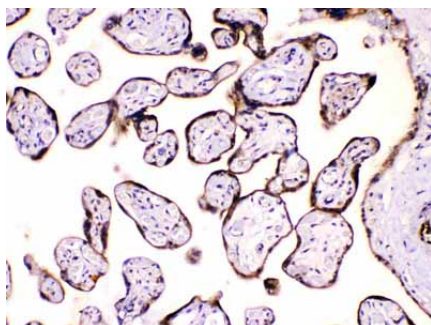
Images



Western blot analysis of Calpastatin expression in COLO320 whole cell lysates (lane 1). Calpastatin at 100KD was detected using rabbit anti- Calpastatin Antigen Affinity purified polyclonal antibody (Catalog # ABO10059) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



Calpastatin was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- Calpastatin Antigen Affinity purified polyclonal antibody (Catalog # ABO10059) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .



Calpastatin was detected in paraffin-embedded sections of human placenta tissues using rabbit anti- Calpastatin Antigen Affinity purified polyclonal antibody (Catalog # ABO10059) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.