

Anti-Calpastatin Picoband Antibody
Catalog # ABO10059**Specification****Anti-Calpastatin Picoband Antibody - 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.

Anti-Calpastatin Picoband Antibody - Additional Information

Gene ID 831

Other Names

Calpastatin, Calpain inhibitor, Sperm BS-17 component, CAST

Calculated MW

76573 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Protein Name

Calpastatin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human Calpastatin (275-310aa QEKRRKVEKDTMSDQALEALSASLGTRQAEPELDLR), different from the related mouse sequence by fifteen amino acids, and from the related rat sequence by eleven amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution,

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.

Anti-Calpastatin Picoband Antibody - Protein Information

Name CAST

Function

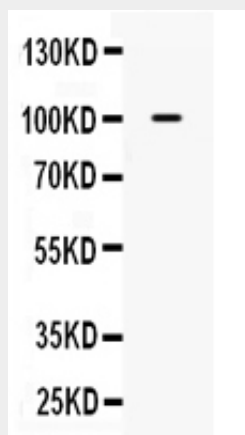
Specific inhibition of calpain (calcium-dependent cysteine protease). Plays a key role in postmortem tenderization of meat and have been proposed to be involved in muscle protein degradation in living tissue.

Anti-Calpastatin Picoband Antibody - Protocols

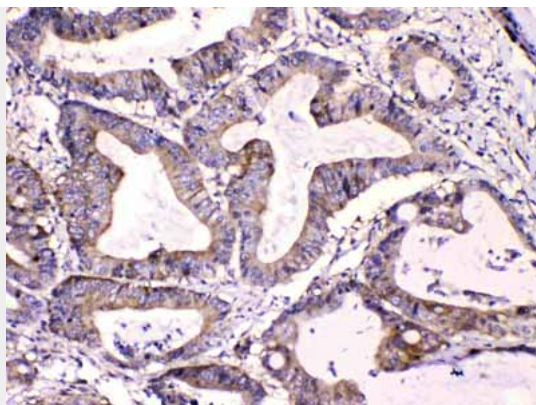
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

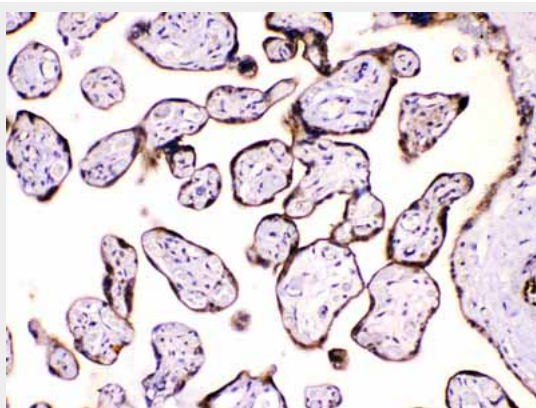
Anti-Calpastatin Picoband Antibody - Images



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 µg/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 .

Anti-Calpastatin Picoband Antibody - 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.