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Datasheet for ABIN3030266

anti-Calpain antibody (Catalytic Subunit)

3 Images

Overview

Quantity:	100 µg
Target:	Calpain
Binding Specificity:	AA 396-555, Catalytic Subunit
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpain antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Human recombinant protein from the CAPN1 catalytic subunit (AA 396-555) was used as the immunogen for this Calpain antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	Calpain
Abstract:	Calpain Products
Background:	Calpain 1 is also known as CAPN, CAPN1 and muCL. The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of

Target Details

heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. The CPN1 gene encodes the catalytic subunit of the ubiquitous enzyme, Calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.

Gene ID: 823

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the Calpain antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

Restrictions: For Research Use only

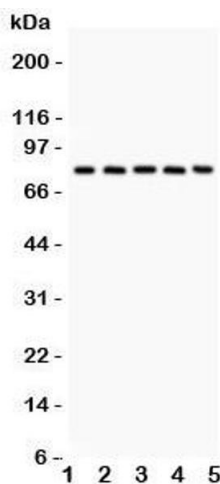
Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

Storage: -20 °C

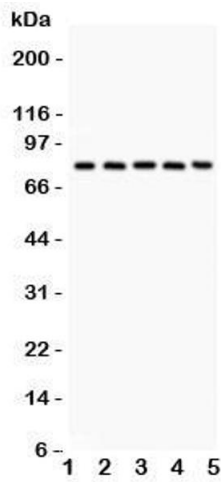
Storage Comment: After reconstitution, the Calpain antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Images



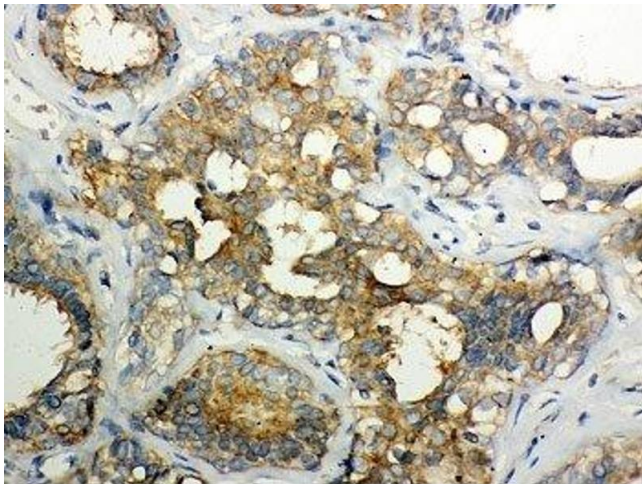
Western Blotting

Image 1. Western blot testing of Calpain antibody and Lane 1: rat lung; 2: mouse lung; 3: human A549; 4: (h) COLO320; 5: (h) Jurkat. Predicted/expected size ~82KD



Western Blotting

Image 2. Western blot testing of Calpain antibody and Lane 1: rat lung



Immunohistochemistry

Image 3. IHC-P: Calpain 1 antibody testing of human breast cancer tissue