

Datasheet for ABIN6137928
anti-Calpain S1 antibody (AA 69-268)

4 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	Calpain S1 (CAPNS1)
Binding Specificity:	AA 69-268
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpain S1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 69-268 of human Calpain small subunit 1 (NP_001740.1).
Sequence:	ISEAAQYNP EPPPPRTHYS NIEANESEEV RQFRRLFAQL AGDDMEVSAT ELMNILNKVV TRHPDLKTDG FGIDTCRSMV AVMDSDTTGK LGFEFEKYLW NNIKRWQAIY KQFDTDRSGT ICSSELPGAF EAAGFHLNEH LYNMIIRRYSDSGNMDFDN FISCLVRLDA MFRAFKSLDK DGTGQIQVNI QEWLQLTMYS
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Calpain S1 (CAPNS1)
Alternative Name:	CAPNS1 (CAPNS1 Products)
Background:	<p>This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene. This encoded protein is essential for the stability and function of both calpain heterodimers, whose proteolytic activities influence various cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy. Calpains have been implicated in neurodegenerative processes, such as myotonic dystrophy. A pseudogene of this gene has been defined on chromosome 1. Alternative splicing results in multiple transcript variants.,CAPNS1,CALPAIN4,CANP,CANPS,CAPN4,CDPS,CSS1,Signal Transduction,Immunology & Inflammation,T Cell Receptor Signaling Pathway,Neuroscience,Calcium Signaling,CAPNS1</p>
Molecular Weight:	28 kDa
Gene ID:	826
UniProt:	P04632
Pathways:	Apoptosis

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

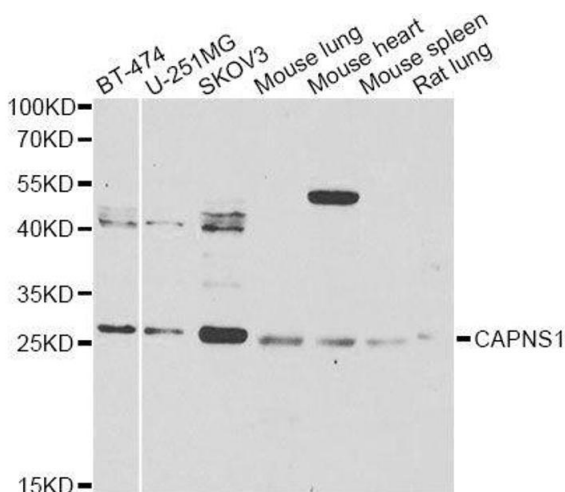
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

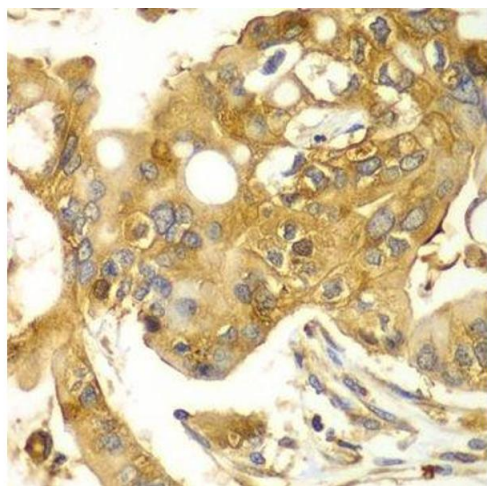
Product cited in: Liu, Lou, Li, Xu, Ruan, Xiao, Qiu, Bao, Yuan, Huang, Wang, Cao, Chen, Yang, Zhang: "Calpain and AR-V7: Two potential therapeutic targets to overcome acquired docetaxel resistance in castration-resistant prostate cancer cells." in: **Oncology reports**, Vol. 37, Issue 6, pp. 3651-3659, (2018) ([PubMed](#)).

Images



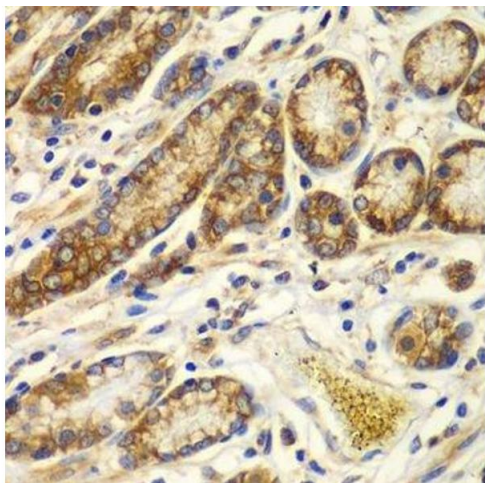
Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using CAPNS1 Antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded human liver cancer using CAPNS1 antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry of paraffin-embedded human colon using CAPNS1 antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6137928.