A6539

Leader in Biomolecular Solutions for Life Science

Calpain small subunit 1 Rabbit pAb

Catalog No.: A6539 2 Publications



Basic Information

Observed MW 28kDa

Calculated MW 28kDa

Category Polyclonal Antibody

Applications WB,IHC-P,ELISA

Cross-Reactivity Human,Mouse,Rat

Background

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.

Recommended Dilutions

WB	1:500 - 1:2000
ІНС-Р	1:50 - 1:100

Gene ID Swiss Prot 826 P04632

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 69-268 of human Calpain small subunit 1 (NP 001740.1).

Synonyms

CANP; CDPS; CSS1; CANPS; CAPN4; CALPAIN4; Calpain small subunit 1

Co	nta	ct
CU	IILa	ιL

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Product Information

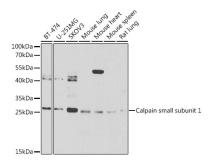
www.abclonal.com Source Rabbit

lsotype lgG Purification Affinity purification

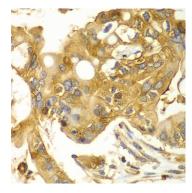
Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

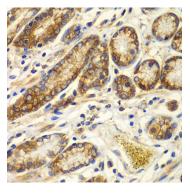
Validation Data



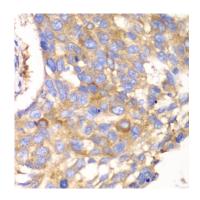
Western blot analysis of extracts of various cell lines, using Calpain small subunit 1 Antibody (A6539) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



Immunohistochemistry analysis of paraffinembedded human liver cancer using Calpain small subunit 1 antibody (A6539) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffinembedded human colon using Calpain small subunit 1 antibody (A6539) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffinembedded human esophageal cancer using Calpain small subunit 1 antibody (A6539) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.