

Datasheet for ABIN2855597

anti-Calpain 5 antibody[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Calpain 5 (CAPN5)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calpain 5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Calpain 5. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit polyclonal antibody to Calpain-5 (calpain 5) Calpain-5 antibody [N1C1]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Calpain 5 (CAPN5)
Alternative Name:	calpain 5 (CAPN5 Products)

Target Details

Background: Calpains are calcium-dependent cysteine proteases involved in signal transduction in a variety of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 lack a calmodulin-like domain IV. Because of the significant similarity to *Caenorhabditis elegans* sex determination gene *tra-3*, CAPN5 is also called as HTRA3.

Molecular Weight: 73 kDa

Gene ID: 726

UniProt: [O15484](#)

Application Details

Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: mouse uterus , RMS-13
Validation: Orthogonal, Overexpression

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.39 mg/mL

Buffer: 1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

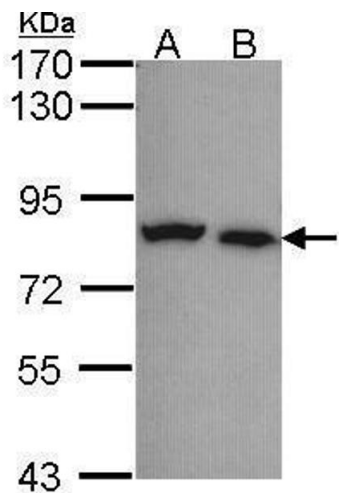
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Alfonso-Pérez, Hayward, Holder, Gruneberg, Barr: "MAD1-dependent recruitment of CDK1-

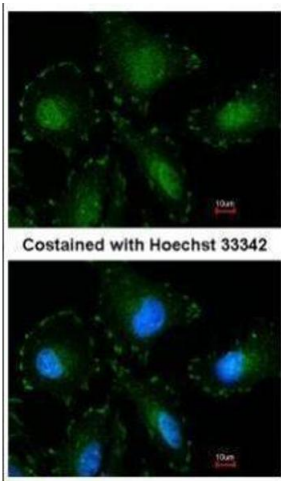
CCNB1 to kinetochores promotes spindle checkpoint signaling." in: **The Journal of cell biology**,
Vol. 218, Issue 4, pp. 1108-1117, (2020) ([PubMed](#)).

Validation report #104394 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: A431 , B: H1299 7.5% SDS PAGE Calpain-5 antibody antibody diluted at 1:1000



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using Calpain-5, antibody at 1:100 dilution.