

Product datasheet for **TA343085**

Calpain 1 (CAPN1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CAPN1 antibody: synthetic peptide directed towards the middle region of human CAPN1. Synthetic peptide located within the following region: EVEWTGAWSDDSSSEWNNVDPYERDQLRVKMEDGEFWMSFRDFMREFTRLE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82 kDa
Gene Name:	calpain 1
Database Link:	NP_005177 Entrez Gene 823 Human P07384
Background:	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 heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 1. Several transcript variants encoding two different isoforms have been found for this gene.
Synonyms:	CANP; CANP1; CANPL1; muCANP; muCL



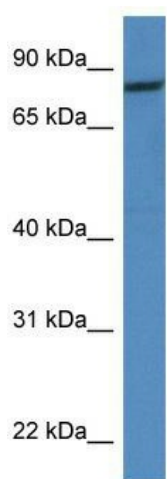
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Note: Immunogen Sequence Homology: Human: 100%; Horse: 93%; Pig: 86%; Rat: 83%; Mouse: 80%; Goat: 79%; Sheep: 79%; Bovine: 79%; Rabbit: 79%; Zebrafish

Protein Families: Druggable Genome, Protease

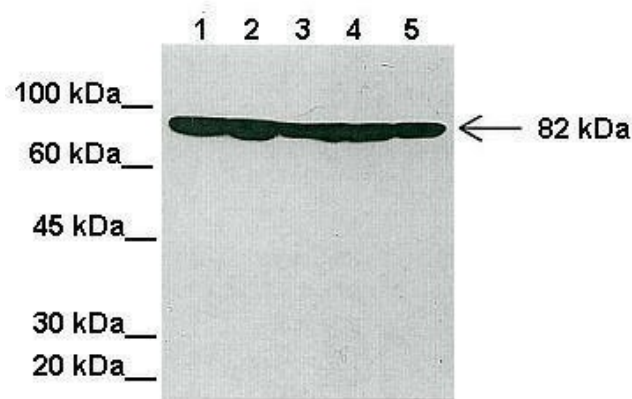
Protein Pathways: Alzheimer's disease, Apoptosis

Product images:

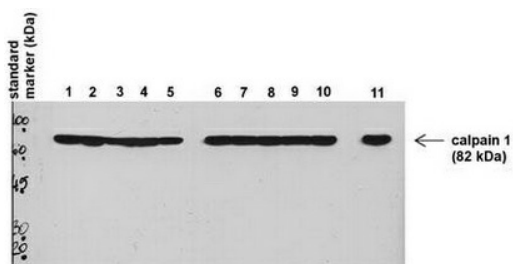


CAPN1 antibody validated by WB using HT1080 cell lysate at 1ug/mL.

CAPN1



Lanes: 1. 20 ug Jurkat cell lysate; 2. 20 ug Hut-78 cell lysate; 3. 20 ug K562 cell lysate; 4. 20 ug Raj cell lysate; 5. 20 ug U937 cell lysate; Primary Antibody Dilution: 1:1000; Secondary Antibody: Anti-rabbit HRP; Secondary Antibody Dilution: 1:2000; G



- 1. Jurkat
- 2. Hut-78
- 3. K562
- 4. Raj
- 5. U937
- 6. Jurkat untreated
- 7. Jurkat Indomethacin 50µM + 4-HPR 1µM 6h
- 8. Jurkat Indomethacin 50µM + 4-HPR 1µM 12h
- 9. Jurkat Indomethacin 50µM + 4-HPR 1µM 24h
- 10. Jurkat Indomethacin 50µM +4-HPR 1µM 36h
- 11. Jurkat Etoposide 50µM 5h

Western Blot

Primary Dilution: 1ug/mL

Secondary Dilution: 2mg/mL

Application data in forum

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Primary dilution: 1ug/mL Secondary dilution:
1:2000 Tested with Hut-78, K562, Raj, U937, and
Indomethacin Treated Jurkat cells