

## Product datasheet for **TA306628**

### Calpain 6 (CAPN6) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	CAPN6 antibody can be used for the detection of StrepII by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	CAPN6 antibody was raised against a 18 amino acid peptide from near the carboxy terminus of human CAPN6.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	CAPN6 Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	calpain 6
Database Link:	<a href="#">NP_055104</a> <a href="#">Entrez Gene 12338 Mouse</a> <a href="#">Entrez Gene 83685 Rat</a> <a href="#">Entrez Gene 827 Human</a> <a href="#">Q9Y6Q1</a>



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<b>Background:</b>	Calpains make up a ubiquitously expressed, well-conserved family of calcium-dependent cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. This large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes as their activation can be triggered by calcium influx and oxidative stress. Calpain 6 (CAPN6) is most similar to Calpain 5; the C-terminal region of CAPN6 lacks homology to the calmodulin-like domain of other vertebrate calpains. CAPN6 is thought to be involved in the regulation of microtubule dynamics and cytoskeletal organization. CAPN6 has also been recently identified as an HIV dependency factor (HDF), suggesting that CAPN6 may be an important drug target in HIV treatment.
<b>Synonyms:</b>	CalpM; CANPX; CAPNX; DJ914P14.1
<b>Protein Families:</b>	Druggable Genome, Protease