

## Product datasheet for **CF804795**

### Calpain 5 (CAPN5) Mouse Monoclonal Antibody [Clone ID: OTI4H5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4H5
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 274-578 of human CAPN5 (NP_004046) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	73 kDa
Gene Name:	Homo sapiens calpain 5 (CAPN5), mRNA.
Database Link:	<a href="#">NP_004046</a> <a href="#">Entrez Gene 12337 Mouse</a> <a href="#">Entrez Gene 171495 Rat</a> <a href="#">Entrez Gene 726 Human</a> <a href="#">O15484</a>



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**Background:**

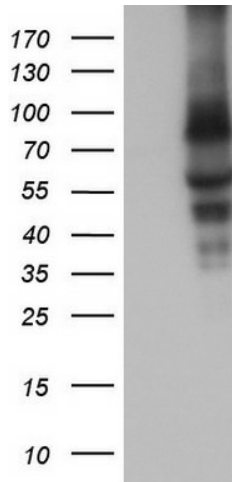
Calpains are calcium-dependent cysteine proteases involved in signal transduction in a variety of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 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. [provided by RefSeq, Jul 2008]

**Synonyms:**

ADNIV; HTRA3; nCL-3; VRNI

**Protein Families:**

Druggable Genome, Protease

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CAPN5 ([RC202045], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CAPN5. Positive lysates [LY418247] (100ug) and [LC418247] (20ug) can be purchased separately from OriGene.