

Product datasheet for **TA355231**

Calpain 3 (CAPN3) Mouse Monoclonal Antibody [Clone ID: Calp3c/12A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Calp3c/12A2
Applications:	WB
Recommended Dilution:	1:100
Reactivity:	Human, Chicken, Dog, Hamster, Mouse, Pig, Rabbit, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Synthetic peptide containing amino acids 355-370 of the human calpain 3 sequence
Specificity:	This antibody reacts with full-size calpain 3 (94 kD) plus an additional breakdown product at 60 kD in human skeletal muscle. The 94 kD band can be seen in muscle extracts from rabbit, mouse, dog, chicken, hamster, pig and rat. Degraded calpain 3 bands starting at approximately 60 kD are also usually present. Additional bands corresponding in size to calpains 1 and/or 2 can be detected in skeletal muscle from mouse, rat, chicken and hamster.
Formulation:	Lyophilized tissue culture supernatant containing sodium azide as a preservative.
Reconstitution Method:	The user is required to reconstitute the contents of the vial with the correct volume of sterile distilled water as indicated on the vial label
Conjugation:	Unconjugated
Storage:	Store at 2-8°C
Stability:	12 months
Gene Name:	calpain 3
Database Link:	Entrez Gene 825 Human P20807



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Background:

The gene responsible for LGMD2A has been identified as the chromosome 15q15-encoded muscle-specific calcium-activated neutral protease, calpain 3. Calpain 3 enzyme is only stable in human muscle when homogenized in treatment buffer immediately after harvest (Anderson LVB et al. Am. J. of Pathol. 153(4), 1169-1179 (1998)), and in homogenates containing SDS and is therefore well suited for analysis by Western Blot. CALP-2C4 reacts with the full-size calpain 3 (94kD) and an additional fragment (30kD) in human skeletal muscle. CALP-12A2 reacts with full-size protein plus apparent degradation products at approximately 60kD.

Synonyms:

CANP3; CANPL3; LGMD2; LGMD2A; MGC4403; MGC10767; MGC11121; MGC14344; nCL-1; NCL1; OTTHUMP00000161194; OTTHUMP00000161196; p94