

## Datasheet

### CAPNS1 monoclonal antibody (M01), clone 3C4

**Catalog Number:** H00000826-M01

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against a partial recombinant CAPNS1.

**Clone Name:** 3C4

**Immunogen:** CAPNS1 (AAH00592, 172 a.a. ~ 260 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

KRWQAIYKQFDTRSGTICSELPGAFAEAGFHLNEH  
LYNMIIRRYSDSEGNMDFDNFISCLVRLDAMFRAFKSL  
DKDGTGQIQVNIQE

**Host:** Mouse

**Reactivity:** Human, Rat

**Applications:** ELISA, IF, IHC-P, RNAi-Ab, S-ELISA, WB-Ce, WB-Re, WB-Tr  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Isotype:** IgG1 Kappa

**Storage Buffer:** In 1x PBS, pH 7.4

**Storage Instruction:** Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 826

**Gene Symbol:** CAPNS1

**Gene Alias:** 30K, CALPAIN4, CANP, CANPS, CAPN4, CDPS

**Gene Summary:** Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine

proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

**References:**

1. Overexpression of a Minimal Domain of Calpastatin Suppresses IL-6 Production and Th17 Development via Reduced NF- $\kappa$ B and Increased STAT5 Signals. Iguchi-Hashimoto M, Usui T, Yoshifuji H, Shimizu M, Kobayashi S, Ito Y, Murakami K, Shiomi A, Yukawa N, Kawabata D, Nojima T, Ohmura K, Fujii T, Mimori T. PLoS One. 2011;6(10):e27020. Epub 2011 Oct 27.
2. The calpain inhibitor calpeptin prevents bleomycin-induced pulmonary fibrosis in mice. Tabata C, Tabata R, Nakano T. Clin Exp Immunol. 2010 Sep 15. doi: 10.1111/j.1365-2249.2010.04257.x. [Epub ahead of print]
3. Vitamin E and C supplementation does not ameliorate muscle dysfunction following anterior cruciate ligament surgery. Barker T, Leonard SW, Hansen J, Trawick RH, Ingram R, Burdett G, Lebold KM, Walker JA, Traber MG. Free Radic Biol Med. 2009 Sep 11. [Epub ahead of print]