

## Mouse CAPN9 Monoclonal Antibody | anti-CAPN9 antibody

CAPN9 antibody

|                              |                      |                                                                                                                 |
|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA74758</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

CAPN9; Monoclonal Antibody; CAPN9 antibody; Monoclonal CAPN9; Anti-CAPN9; Calpain 9; nCL 4; GC36; Digestive tract-specific calpain; New calpain 4; NCL4; Protein CG36; CAPN 9; CAPN-9; anti-CAPN9 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clone Number                                    | 2G1                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                             | CAPN9 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                    |
| Concentration                                   | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length                                 | 690                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-CAPN9 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                          |
| Biological Significance                         | Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The 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. |
| Cross-Reactivity                                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                                       | CAPN9 antibody was raised in mouse using a full length recombinant protein of human CAPN9 (NP_006606) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                         | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                    |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant CAPN9 protein using CAPN9 antibody



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of CAPN9 protein in paraffin embedded Adenocarcinoma of Human endometrium tissue using CAPN9 antibody



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant CAPN9 protein (Right) or empty vector (Left) detected with CAPN9 antibody

### ADDITIONAL INFORMATION

|                                                     |                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------|
| Related Product Information for anti-CAPN9 antibody | Mouse monoclonal CAPN9 antibody                                                    |
| Product Categories/Family for anti-CAPN9 antibody   | <a href="#">Proteases</a> ; <a href="#">Inhibitors</a> ; & <a href="#">Enzymes</a> |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 5729758                                                                                           |
| NCBI GeneID                      | 10753                                                                                             |
| NCBI Accession #                 | NP_006606                                                                                         |
| NCBI GenBank Nucleotide #        | NM_006615.2                                                                                       |
| UniProt Accession #              | <a href="#">O14815</a> ; <a href="#">Q9NS74</a> ; <a href="#">B1APS1</a> ; <a href="#">B1AQI0</a> |
| Molecular Weight                 | 76,168 Da                                                                                         |
| NCBI Official Full Name          | calpain-9 isoform 1                                                                               |
| NCBI Official Synonym Full Names | calpain 9                                                                                         |
| NCBI Official Symbol             | CAPN9                                                                                             |
| NCBI Official Synonym Symbols    | GC36; nCL-4                                                                                       |
| NCBI Protein Information         | calpain-9                                                                                         |
| UniProt Protein Name             | Calpain-9                                                                                         |
| UniProt Gene Name                | <b>CAPN9</b>                                                                                      |
| UniProt Synonym Gene Names       | NCL4; nCL-4                                                                                       |
| UniProt Entry Name               | CAN9_HUMAN                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/capn9-antibody-clone-2g1-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/74758>