

## ARG40370 anti-Calpain 2 antibody

Package: 50 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes Calpain 2   |
| Tested Reactivity   | Hu  |
| Tested Application  | IHC-P   |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | Calpain 2   |
| Species             | Human   |
| Immunogen           | Recombinant protein corresponding to R500-L700 of Human Calpain 2.  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | CANP2; Calpain-2 large subunit; Calpain-2 catalytic subunit; EC 3.4.22.53; Millimolar-calpain; M-calpain; mCANP; Calpain large polypeptide L2; Calpain M-type; CANP 2; CANPL2; CANPml; Calcium-activated neutral proteinase 2 |

### Application Instructions

|                   |   |               |
|-------------------|---|---------------|
| Application table | Application   | Dilution      |
|                   | IHC-P   | 0.5 - 1 µg/ml |
| Application Note  | IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min.<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |               |

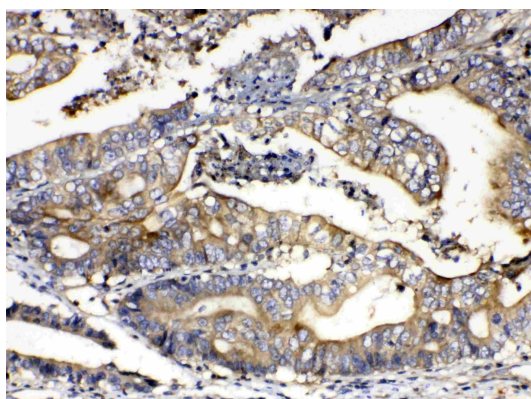
### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Affinity purification with immunogen.  |
| Buffer              | 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.  |
| Preservative        | 0.05% Sodium azide   |
| Stabilizer          | 5% BSA   |
| Concentration       | 0.5 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

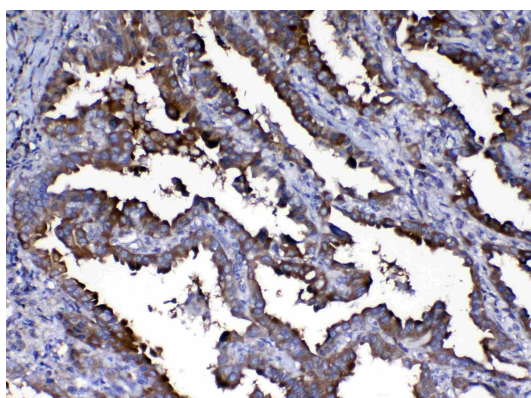
|                       |  |
|-----------------------|--|
| Gene Symbol           | CAPN2  |
| Gene Full Name        | calpain 2, (m/II) large subunit  |
| Background            | The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009] |
| Function              | Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. Proteolytically cleaves MYOC at 'Arg-226'. [UniProt]  |
| Calculated Mw         | 80 kDa   |
| Cellular Localization | Cytoplasm. Cell membrane. Note=Translocates to the plasma membrane upon Ca(2+) binding. [UniProt]  |

## Images



ARG40370 anti-Calpain 2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40370 anti-Calpain 2 antibody at 1 µg/ml, overnight at 4°C.



ARG40370 anti-Calpain 2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG40370 anti-Calpain 2 antibody at 1 µg/ml, overnight at 4°C.