

**Mouse Monoclonal Antibody to C1QA**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2437a****Specification**

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**Mouse Monoclonal Antibody to C1QA - Product Information**

Application	<b>E, WB, FC, IHC</b>
Primary Accession	<a href="#">P02745</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG2a</b>
Calculated MW	<b>26kDa KDa</b>

**Description**

This gene encodes a major constituent of the human complement subcomponent C1q. C1q associates with C1r and C1s in order to yield the first component of the serum complement system. Deficiency of C1q has been associated with lupus erythematosus and glomerulonephritis. C1q is composed of 18 polypeptide chains: six A-chains, six B-chains, and six C-chains. Each chain contains a collagen-like region located near the N terminus and a C-terminal globular region. The A-, B-, and C-chains are arranged in the order A-C-B on chromosome 1. This gene encodes the A-chain polypeptide of human complement subcomponent C1q.;

**Immunogen**

Purified recombinant fragment of human C1QA (AA: 23-167) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; FCM: 1/200 - 1/400

**Mouse Monoclonal Antibody to C1QA - Additional Information**

**Gene ID** 712

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Monoclonal Antibody to C1QA is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Monoclonal Antibody to C1QA - Protein Information**

**Name** C1QA

### Function

C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca(2+)-dependent C1r(2)C1s(2) proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes.

### Cellular Location

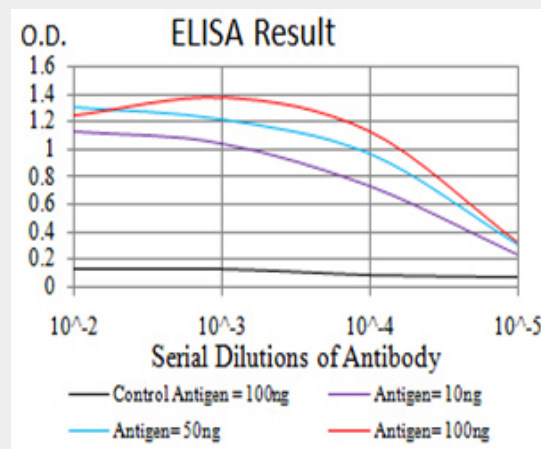
Secreted.

### Mouse Monoclonal Antibody to C1QA - Protocols

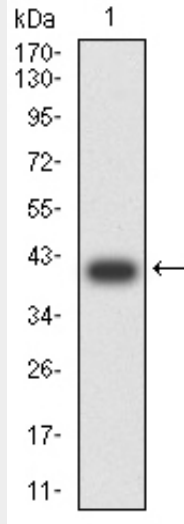
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

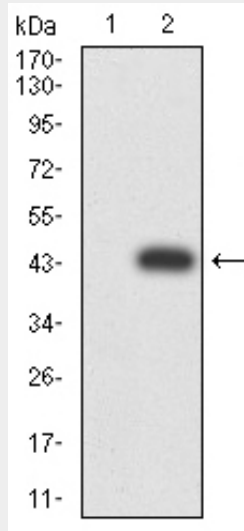
### Mouse Monoclonal Antibody to C1QA - Images



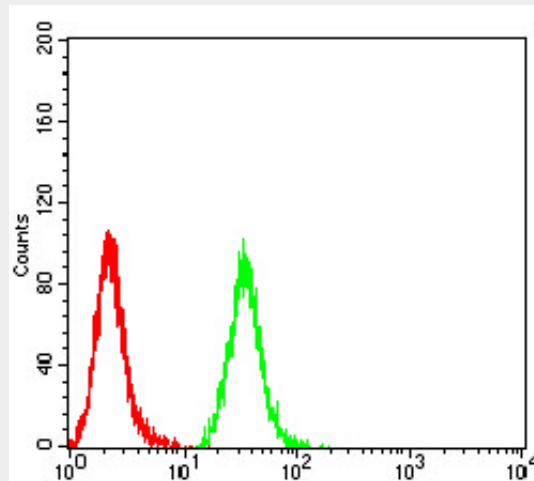
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



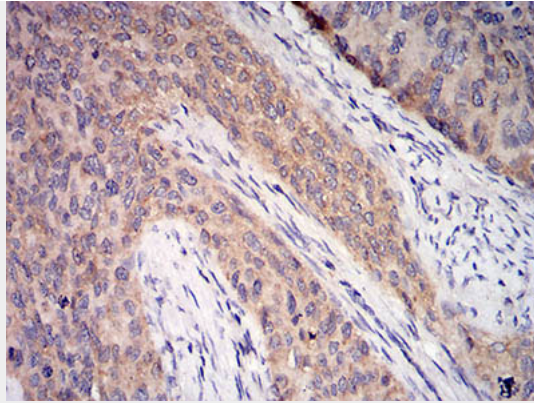
Western blot analysis using C1QA mAb against human C1QA (AA: 23-167) recombinant protein. (Expected MW is 40.6 kDa)



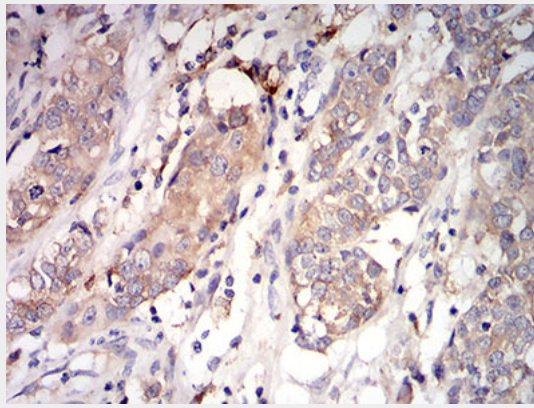
Western blot analysis using C1QA mAb against HEK293 (1) and C1QA (AA: 23-167)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of HeLa cells using C1QA mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using C1QA mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using C1QA mouse mAb with DAB staining.

#### **Mouse Monoclonal Antibody to C1QA - References**

1. Immunology. 2012 May;136(1):78-85. ; 2. Br J Cancer. 2010 Apr 13;102(8):1294-9.;