

Datasheet for ABIN2192169 **anti-C1q antibody**

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Overview

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| Quantity: | 100 µg |
| Target: | C1q |
| Reactivity: | Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This C1q antibody is un-conjugated |
| Application: | Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP), Immunoassay (IA) |

Product Details

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| Sterility: | 0.2 µm filtered |
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Target Details

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| Target: | C1q |
| Alternative Name: | c1q (C1q Products) |
| Background: | <p>The polyclonal antibody recognizes rat C1q, a 459 kDa molecule consisting of three individual polypeptide chains. C1q composes together with C1r and C1s the C1 macromolecule, the first component of the classical complement pathway. Interaction of immune complexes with C1q induces a conformational change within the C1 complex, which results in activation of the classical pathway. C1q functions as recognition unit by binding to the heavy chain of IgG or IgM (Fc gamma and Fc micro) provided that the immunoglobulins are bound to their antigen.</p> <p>Furthermore C1q can bind to apoptotic blebs, where it activates the classical complement</p> |

Target Details

pathway and mediates phagocytosis. As such, C1q promotes the clearance of apoptotic cells and subsequent exposure of auto antigens, thereby preventing stimulation of the immune system. C1q is predominantly produced by macrophages but also by follicular dendritic cells, interdigitating cells and cells of the monocyte-macrophage lineage. C1q deficiency has a profound effect on host defence and clearance of immune complexes. Absence of C1q may cause autoimmunity by impairment of the clearance of apoptotic cells. Inherited C1q deficiency is also associated with the development of systemic lupus erythematosus (SLE). Aliases 11S protein

Application Details

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| Application Notes: | For immunohistology dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. |
| Restrictions: | For Research Use only |

Handling

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| Buffer: | PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C |
| Storage Comment: | Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year. |
| Expiry Date: | 12 months |