

Active Recombinant Mouse C1qa protein, His-tagged

Cat. No. C1qa-2609M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse C1qa protein(P98086)(23-245 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	23-245 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Complement Component 1, Q Subcomponent A (C1qA) is a protein that plays a crucial role in the innate immune system. It is part of the C1 complex, which is the first component of the classical complement pathway. The C1 complex is composed of one molecule each of C1q, C1r, and C1s. C1q is the recognition subcomponent of the complex and and initiating the complement cascade. C1qA plays a key role in eliminating pathogens, regulating inflammatory response and maintaining immune tolerance. It is reported that C1qA can bind to the C-terminal of CALR through its gelatin-as-region, and this interaction may play an important role in regulating complement activation and cell signaling. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse C1qA and recombinant human CALR. Briefly, C1qA was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CALR-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h

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with anti-C1qA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse C1qA and recombinant human CALR was shown, the EC50 for this effect is 0.03 ug/mL.

Molecular Mass	27.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	C1qa complement component 1, q subcomponent, alpha polypeptide [Mus musculus]
Official Symbol	C1qa
Synonyms	C1QA; complement component 1, q subcomponent, alpha polypeptide; complement C1q subcomponent subunit A; C1q; AI255395;
Gene ID	12259

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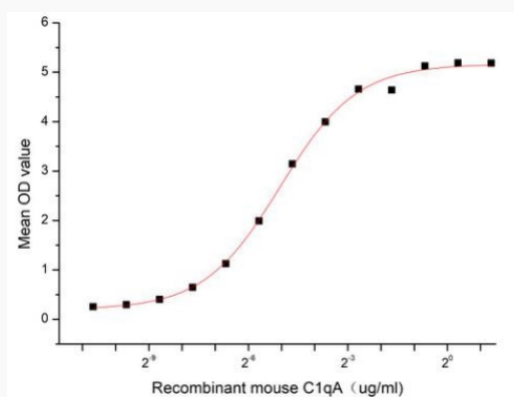
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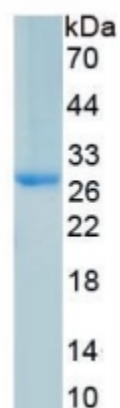
mRNA Refseq NM_007572

Protein Refseq NP_031598

Activity



SDS-PAGE



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