

Mouse C5a Antibody Pair Set

Catalog No. E-KAB-0290

Applications

ELISA

Synonyms C5a

Kit components & Storage

| Title | Specifications | Storage |
|---------------------------------------|----------------|---|
| Mouse C5a Capture Antibody | 1 vial, 100 µg | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Mouse C5a Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C for one year. Avoid freeze / thaw cycles. |

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0290) | |
|-----------------------|---------------|--|---|
| | | Mouse C5a Capture Antibody | Mouse C5a Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Mouse C5a protein | Recombinant Mouse C5a protein |
| | Swissprot | P06684(679~1680aa) | |
| Product details | Reactivity | Mouse | Mouse |
| | Host | Rat | Goat |
| | Conjugation | Unconjugated | Biotin |
| | Concentration | 0.5mg/mL | / |
| | Buffer | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
| | Purify | Protein A or G | Antigen Affinity |
| | Specificity | Detects Mouse C5a in ELISAs. | |

For Research Use Only

Applications

Mouse C5a Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|---------------------------------|------------------------------------|---------------------------------------|--|---------------------------------|-----------------|-----|------|-----|-----|-----|-----|------|-----|------|-----|------|-----|-------|-----|
| ELISA Capture | 0.5-4µg/mL | Mouse C5a Capture Antibody | <table border="1"> <caption>Approximate data points from the standard curve graph</caption> <thead> <tr> <th>Mouse C5a concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.05</td> </tr> <tr> <td>200</td> <td>0.1</td> </tr> <tr> <td>500</td> <td>0.2</td> </tr> <tr> <td>1000</td> <td>0.4</td> </tr> <tr> <td>2000</td> <td>0.8</td> </tr> <tr> <td>5000</td> <td>1.5</td> </tr> <tr> <td>10000</td> <td>3.0</td> </tr> </tbody> </table> | Mouse C5a concentration (pg/mL) | Optical Density | 100 | 0.05 | 200 | 0.1 | 500 | 0.2 | 1000 | 0.4 | 2000 | 0.8 | 5000 | 1.5 | 10000 | 3.0 |
| Mouse C5a concentration (pg/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 100 | 0.05 | | | | | | | | | | | | | | | | | | |
| 200 | 0.1 | | | | | | | | | | | | | | | | | | |
| 500 | 0.2 | | | | | | | | | | | | | | | | | | |
| 1000 | 0.4 | | | | | | | | | | | | | | | | | | |
| 2000 | 0.8 | | | | | | | | | | | | | | | | | | |
| 5000 | 1.5 | | | | | | | | | | | | | | | | | | |
| 10000 | 3.0 | | | | | | | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Mouse C5a Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the C5 alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mutations in this gene cause complement component 5 deficiency, a disease characterized by recurrent bacterial infections. Alternative splicing results in multiple transcript variants.

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