Datasheet for ABIN727875

anti-C5 antibody (AA 701-755)

Overview

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>100 µL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target:</td>
<td>C5</td>
</tr>
<tr>
<td>Binding Specificity:</td>
<td>AA 701-755</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Human, Mouse</td>
</tr>
<tr>
<td>Host:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate:</td>
<td>This C5 antibody is un-conjugated</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))</td>
</tr>
</tbody>
</table>

Product Details

<table>
<thead>
<tr>
<th>Immunogen:</th>
<th>KLH conjugated synthetic peptide derived from mouse C5a (725-770aa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Predicted Reactivity:</td>
<td>Rat</td>
</tr>
<tr>
<td>Purification:</td>
<td>Purified by Protein A.</td>
</tr>
</tbody>
</table>

Target Details

<table>
<thead>
<tr>
<th>Target:</th>
<th>C5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Name:</td>
<td>C5a anaphylatoxin (C5 Products)</td>
</tr>
</tbody>
</table>
### Target Details

**Background:** Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Subcellular location: Secreted

Synonyms: C5, He, C5a, Complement C5, Hemolytic complement, Hc

<table>
<thead>
<tr>
<th>Gene ID:</th>
<th>15139</th>
</tr>
</thead>
<tbody>
<tr>
<td>UniProt:</td>
<td>P06684</td>
</tr>
<tr>
<td>Pathways:</td>
<td>Complement System, Carbohydrate Homeostasis</td>
</tr>
</tbody>
</table>

### Application Details

**Application Notes:**
- WB 1:300-5000
- ELISA 1:500-1000
- IHC-P 1:200-400
- IF(IHC-P) 1:50-200
- IF(IHC-F) 1:50-200
- IF(ICC) 1:50-200

**Restrictions:** For Research Use only

### Handling

<table>
<thead>
<tr>
<th>Format:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration:</td>
<td>1 μg/μL</td>
</tr>
<tr>
<td>Buffer:</td>
<td>0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.</td>
</tr>
<tr>
<td>Preservative:</td>
<td>ProClin</td>
</tr>
<tr>
<td>Precaution of Use:</td>
<td>This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.</td>
</tr>
<tr>
<td>Storage:</td>
<td>-20 °C</td>
</tr>
</tbody>
</table>
**Handling**

<table>
<thead>
<tr>
<th>Storage Comment</th>
<th>Store at -20°C for one year. Avoid repeated freeze/thaw cycles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expiry Date</td>
<td>12 months</td>
</tr>
</tbody>
</table>

**Publications**

|------------------|---------------------------------------------------------------------------------------------------------------|
Images

**Immunofluorescence**

**Image 1.** Formalin-fixed and paraffin embedded: Human laryngeal carcinoma labeled with Anti-C5a Polyclonal Antibody (ABIN727875), Unconjugated at 1:200, followed by conjugation to the secondary antibody was Goat Anti-Rabbit IgG, PE conjugated at 1:200 for 40 minutes at 37°C

**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 2.** Formalin-fixed and paraffin embedded: Human laryngeal carcinoma labeled with Anti-C5a Polyclonal Antibody , Unconjugated at 1:200, followed by conjugation to the secondary antibody was Goat Anti-Rabbit IgG, PE conjugated (PE) at 1:200 for 40 minutes at 37°C

**Image 3.** Mouse thymus lysate probed with C5a anaphylatoxin Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.