# Caspase 1 Antibody

<table>
<thead>
<tr>
<th>Cat.#:</th>
<th>AF5418</th>
<th>Conc.:</th>
<th>1mg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size:</td>
<td>100ul,200ul</td>
<td>Source:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Mol.Wt.:</td>
<td>45kDa,20kDa</td>
<td>Clonality:</td>
<td>Polyclonal</td>
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**Application:**

**Reactivity:**
- Human, Mouse, Rat

**Purification:**
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:**
Caspase 1 Antibody detects endogenous levels of total Caspase 1.

**Immunogen:**
A synthesized peptide derived from human Caspase 1, corresponding to a region within C-terminal amino acids.

**Uniprot:**
P29466

**Description:**
Thiol protease that cleaves IL-1 beta between an Asp and an Ala, releasing the mature cytokine which is involved in a variety of inflammatory processes. Important for defense against pathogens. Cleaves and activates sterol regulatory element binding proteins (SREBPs). Can also promote apoptosis.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20°C. Stable for 12 months from date of receipt.

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Western blot analysis of Caspase 1 expression in 293 cells. The lane on the left was treated with the antigen-specific peptide.

AF5418 at 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.
AF5418 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF5418 at 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

AF5418 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Red), diluted at 1/600, was used as secondary antibody.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.