**Product datasheet**

**Anti-Cofilin antibody ab29038**

**Overview**

**Product name**  
Anti-Cofilin antibody

**Description**  
Rabbit polyclonal to Cofilin

**Host species**  
Rabbit

**Specificity**  
ab29038 recognises Cofilin 1. The immunogen sequence has only 3 amino acid differences from human Cofilin 2.

**Tested applications**  
Suitable for: ELISA, WB

**Species reactivity**  
Reacts with: Mouse, Rat, Human

**Immunogen**  
A synthetic peptide (conjugated to KLH) corresponding to amino acid residues at the N terminus of human Cofilin 1.

**Positive control**  
Jurkat cell lysate

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**Storage buffer**  
Preservative: 0.05% Sodium azide  
Constituents: PBS, 50% Glycerol, 0.1% BSA

**Purity**  
Immunogen affinity purified

**Clonality**  
Polyclonal

**Isotype**  
IgG

**Applications**

Our Abpromise guarantee covers the use of ab29038 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ELISA</td>
<td>1/2000</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/1000</td>
<td>Predicted molecular weight: 18 kDa. Can be blocked with Human Cofilin peptide (ab37634).</td>
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<thead>
<tr>
<th>Target</th>
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<tr>
<td><strong>Function</strong></td>
<td>Controls reversibly actin polymerization and depolymerization in a pH-sensitive manner. It has the ability to bind G- and F-actin in a 1:1 ratio of coflin to actin. It is the major component of intranuclear and cytoplasmic actin rods.</td>
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<td><strong>Tissue specificity</strong></td>
<td>Widely distributed in various tissues.</td>
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<td><strong>Sequence similarities</strong></td>
<td>Belongs to the actin-binding proteins ADF family. Contains 1 ADF-H domain.</td>
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<td><strong>Post-translational modifications</strong></td>
<td>Phosphorylated on Ser-3 in resting cells.</td>
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<tr>
<td><strong>Cellular localization</strong></td>
<td>Nucleus matrix. Cytoplasm &gt; cytoskeleton. Almost completely in nucleus in cells exposed to heat shock or 10% dimethyl sulfoxide.</td>
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</table>

**Images**

Western blot of jurkat cells expressing coflin 1. Blots were treated with (lanes 2, 3, 5 & 6) or without (lanes 1 & 4) lambda phosphatase for 1 hr at 37 degrees C. In lanes 3 & 6, phosphatase treatments were performed in the presence of phospho-cofilin 1 (Ser-3) peptide. Blots were probed with anti-phospho-Cofilin 1 (Ser-3) (lanes 1-3;) or anti-Cofilin 1 (lanes 4-6; ab29038). Phosphatase treatment removes Ser-3 phosphorylation of Cofilin, but this phosphatase activity is reduced in the presence of peptide.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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