ZTL (ADO1) | Zeitlupe (Adagio protein 1)

**Background**
ZTL Zeitlupe (Adagio Protein 1) is a component of an E3 ubiquitin ligase complex which is playing a central role in blue light-dependent circadian cycles. Alternative names: Adagio protein 1 (ADO1), F-box only protein 2b (FBX2b), Flavin-binding kelch repeat F-box protein 1-like protein 2, FKF1-like protein 2 (FKL2), LOV kelch protein 1 (LKP1), Clock-associated PAS protein ZTL, ZEITLUPE (ZTL).

**Immunogen**
KLH-conjugated synthetic peptide derived from Arabidopsis thaliana ZTL1 protein sequence, UniProt: Q94BT6. TAIR: AT5G57360

**Host**
Rabbit

**Clonality**
Polyclonal

**Purity**
Affinity purified serum in PBS, pH 7.4

**Format**
Lyophilized in PBS pH 7.4

**Quantity**
50 µg

**Reconstitution**
For reconstitution add 50 µl of sterile water.

**Storage**
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

**Tested applications**
Western blot (WB)

**Related products**
AS12 1864 | GI (Gigantea) - rabbit antibody
AS12 2646 | TOC1 (Timing of CAB expression 1) - rabbit antibody

**Plant protein extraction buffer**

**Secondary antibodies**

**Application information**

**Recommended dilution**
1 : 1000 (WB)

**Expected | apparent MW**
65.9 kDa

**Confirmed reactivity**
Arabidopsis thaliana

**Predicted reactivity**
Hordeum vulgare

**Not reactive in**
Nicotiana tabacum

**Selected references**
to be added when available, antibody released in September 2014.

**application example**

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<table>
<thead>
<tr>
<th>150</th>
<th>75</th>
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<tbody>
<tr>
<td>100</td>
<td>ZTL</td>
<td>MYC</td>
<td>ZTL</td>
</tr>
<tr>
<td>75</td>
<td>50</td>
<td>25</td>
<td>15</td>
</tr>
</tbody>
</table>

anti-ZTL (1:5k) anti-MYC (1:5k)
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80 μg of *Arabidopsis thaliana* total protein were loaded per lane, samples taken at ZT 12 (12 h after lights are on in a 12 h light : 12 h dark growth regime, 22°C constant temperature). Samples were separated on 10 % SDS-PAGE and blotted for 1 h to PVDF using semi-dry transfer. Blot was blocked in for 1 h in 5% non-fat milk at room temperature (RT) with agitation and incubated at 1:1000 dilution of a primary antibody over night in PBST-2% BSA, followed by a secondary antibody incubation at 1:5000 dilution for 1 hour (Agrisera, AS09 602). All washes were done in PBST. Reaction was developed with Thermo SuperSignal West Femto Chemiluminescent Substrate (Thermo Fisher Scientific).

Courtesy of Dr. Dmitri Nusinow, Danforthcenter, USA