



**Chickens make *better* antibodies.**

## Product Data Sheet

<b>Catalog Number</b>	<b>ACT-1010</b> <b>ACT-1040</b>
<b>Description</b>	Actin chicken polyclonal antibody (Nitrocellulose Membrane Loading Control for Westerns)
<b>Volume</b>	100 $\mu$ L (ACT-1010) 400 $\mu$ L (ACT-1040)
<b>Concentration</b>	10 mg/mL of purified anti-actin (purified from rabbit muscle) IgY spiked with 25 $\mu$ g/mL of affinity purified anti-actin IgY (based on A280 nm assay readings).
<b>Buffer</b>	Sodium phosphate (10 mM, pH 7.2) buffered isotonic saline (0.9%, w/v), glycerol (50%, v/v), with sodium azide (0.02%, w/v) as an anti-microbial agent.
<b>Production Notes</b>	Chickens were immunized with actin purified from rabbit muscle. After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity purified using a peptide column. The final product contains 50% glycerol (v/v), purified anti-actin IgY fraction (10 mg/ mL) spiked with 25 $\mu$ g/mL of affinity purified anti-actin IgY, and then filter-sterilized.
<b>Quality Control</b>	This anti-actin IgY preparation was analyzed by Western Blot analysis (at a dilution of 1:2000) using HRP-labeled goat anti-chicken IgY (1:5000 dilution, Aves Labs Cat. # H-1004) as the secondary reagent.
<b>Storage</b>	<b>Store at -20°C in the dark.</b> Under these conditions, the antibodies should have a shelf life of at least twelve (12) months, provided they remain sterile. Do not freeze these antibodies at -80°C unless you want to store them for longer periods of time. Note, however, that each time an antibody preparation is frozen, about half its binding activity is lost.
<b>Recommended Dilutions</b>	1:1000-1:2000 for Western Blot analysis of nitrocellulose membranes. Please note that these dilutions are meant to serve as starting points, and that optimal dilutions may vary. Do NOT use this product with PVDF, or other nylon-based membranes, because this often produces unacceptably high backgrounds in chemiluminescence studies.

*Aves Labs products are intended for use as research laboratory reagents.  
They are not intended for use as diagnostic or therapeutic reagents in humans.*