

Product datasheet for **AP31768PU-N**

lacZ Chicken Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | IF, IHC, WB |
| Recommended Dilution: | Western Blot. Immunocytochemistry. Immunohistochemistry: 1/5000. <i>Recommended Dilutions</i> 1/5000-1/10000 for Western Blot. 1/2500-1/5000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells. Please note that these dilutions are meant to serve as starting points, and that optimal dilutions may vary. |
| Host: | Chicken |
| Isotype: | IgY |
| Clonality: | Polyclonal |
| Immunogen: | Purified Beta-Galactosidase (<i>LacZ</i> from <i>E.coli</i>) protein emulsified in Freund's adjuvants. After multiple injections, eggs were collected from the hens, IgY fractions were prepared from the yolks, and then affinity-purified antibodies were prepared using Beta-Galactosidase conjugated to an Agarose matrix. The final product is a mixture of both affinity-purified antibodies (25 mg/ml) and purified IgY (10 mg/ml), and is filter-sterilized. |
| Specificity: | This antibody recognizes the LacZ gene product with high titre and high specificity. This antibody can be used together with Rabbit and Mouse primary antibodies for Double Immunostaining with no Secondary antibody cross reactivity. It even works well with fusion protein of LacZ! Quality Control: This antibody preparation was analyzed by Immunohistochemistry (at a dilution of 1/5000) using tissues infected with a virus bearing the LacZ gene. Fluorescein Conjugated Affinity-purified Goat anti-Chicken IgY antibody (Cat.-No AP31795FC-N, 1/2000 dilution) was used as a secondary antibody. |



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| Formulation: | Sodium Phosphate-Buffered (10 mM) isotonic (0.9%, w/v) Saline (PBS, pH 7.2) (50% by volume) with 50% Glycerol as an anti-freezing agent State: Purified State: Liquid purified IgY fraction Preservative: 0.01% Thimerosal |
| Concentration: | lot specific |
| Conjugation: | Unconjugated |
| Storage: | Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | P00722 |
| Background: | Beta-galactosidase (beta-gal), an inducible enzyme that catalyses the hydrolysis of lactose and other beta-galactosides into monosaccharides, is a product of the LacZ operon, and is a homo-tetrameric protein consisting of four identical subunits of approximately 114kDa each. The enzyme is commonly used as a reporter gene in molecular biology to assess the efficiency of transfection. |
| Synonyms: | Beta-Gal tag, lacZ tag, b0344, JW0335, Beta-Gal Fusion Protein, Lactase |

Product images: