



Chickens make *better* antibodies.

Product Data Sheet

Catalog Number: ER5

Description: **Metabotropic Glutamate Receptor-5 (mGluR5) Chicken polyclonal anti-peptide antibody mixture**

Volume: Regular 1000 μ L, Sampler 200 μ L

Concentration: Three different affinity-purified anti-peptide antibodies were combined to make this product. The concentrations of each of these antibodies were 100 ug/ml (based on absorbance at 280 nm), making the total antibody concentration 300 ug/mL.

Buffer: Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.

Production Notes: Chickens were immunized with three synthetic peptide / keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the metabotropic glutamate receptor type 5 gene product, but are shared between the human (NP_001137303.1, NCBI) and mouse (Q3UVX5.2, NCBI) sequences. After repeated injections, immune eggs were collected from the hens, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified against each of the three cognate peptides using agarose affinity matrices. The eluate concentrations were then adjusted to 300 ug/mL, mixed in equimolar concentrations (100 ug/ml is the final concentration of each antibody), and the preparation was filter-sterilized.

Quality Control: This anti-peptide antibody mixture was analyzed by immunohistochemistry (at a dilution of 1:2000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent.

Storage: **Store at 4°C in the dark.** Under these conditions, the antibodies should have a shelf life of at least 12 months (provided they remain sterile). Do not freeze these antibodies 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.

Recommended Dilutions: 1:1000-1:2000 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.

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



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