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PRODUCT SPECIFICATIONS

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| Product Description: | Synaptotagmin chicken polyclonal anti-peptide antibody mixture |
| Catalog Number: | STG |
| Antibody Concentrations: | Four different affinity-purified anti-peptide antibodies were combined to make this product. The concentrations of each of the four antibodies was 100 ug/ml (based on Bradford assay readings using bovine serum albumin as a standard), making the total antibody concentration 400 ug/ml. |
| Volume: | Regular vials contain 1000 ul of this antibody mixture; Sampler vials contain 200 ul of this mixture. |
| 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: | Chickens were immunized with four synthetic peptide / keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the Synaptotagmin-1 gene product, but are shared between the human (NP_005630, NCBI) and mouse (NP_033332, NCBI) sequences. After repeated injections into the hens, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 400 ug/ml. Finally, equal volumes of each of the three affinity-purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized. |
| Quality Control: | Each of the three antibodies were 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 Conditions: | 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. 1:2000-1:5000 for western blots. Please note that these dilutions are meant to serve as starting points, and that optimal dilutions may vary. |

NOTE: These antibodies are meant to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.