

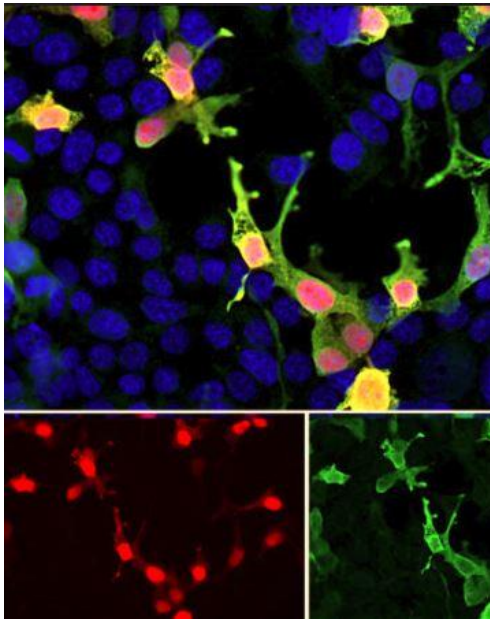


Catalog Number:	GT22108	Host:	Goat
Product Type:	Goat Polyclonal	Species Reactivity:	N/A
Immunogen Sequence:	Full length recombinant mCherry protein	Format:	Affinity purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
Applications:	Immunofluorescence: 1:1,000 Immunohistochemistry: 1:1,000 Western Blot: 1:2,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

Application Notes

Description/Data

The mCherry protein is engineered from a fluorescent protein originally isolated from a coral and is widely used as a tracer in transfection and transgenic experiments. The prototype for these fluorescent proteins is Green Fluorescent Protein (GFP), which is a ~27kDa protein isolated originally from the jellyfish *Aequoria victoria*. The mCherry protein is derived from DsRed, a red fluorescent protein related to GFP isolated from disc corals of the genus *Discosoma*.



This antibody was made against full length recombinant mCherry protein expressed in and purified from *E. coli*. The antibody recognizes mCherry and tdTomato on western blots, in appropriate cells and sections, and does not react with GFP. This antibody can be used to verify the size of fusion constructs by western blotting, and to amplify the endogenous fluorescence of mCherry in transfected cells.

Image: Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to ankyrin 3, CH22125, dilution 1:2,000 in green, and costained with mouse mAb to FOX3/NeuN dilution 1:2,000 in red. The blue is Hoechst staining of nuclear DNA. The CH22125 antibody stains the axonal initial segments, while the FOX3/NeuN antibody reveals perikarya and nuclei of neurons.

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