Mouse anti GFP-Tag Monoclonal Antibody



CABE072

Product Information Protein Background Size: The green fluorescent protein (GFP) is a protein composed of 238 amino acid residues (26.9 kDa) that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet 100 uL range. Although many other marine organisms have similar green fluorescent proteins, GFP traditionally refers to the protein first isolated from the jellyfish Aequorea victoria. The GFP **Observed MW:** from A. victoria has a major excitation peak at a wavelength of 395 nm and a minor one at 475 nm. Its emission peak is at 509 nm, which is in the lower green portion of the visible spectrum. 50KDa The fluorescence quantum yield (QY) of GFP is 0.79. The GFP from the sea pansy (Renilla Calculated MW: reniformis) has a single major excitation peak at 498 nm. GFP makes for an excellent tool in many forms of biology due to its ability to form internal chromophore without requiring any 27kDa accessory cofactors, gene products, or enzymes / substrates other than molecular oxygen. In cell and molecular biology, the GFP gene is frequently used as a reporter of expression. It **Applications:** has been used in modified forms to make biosensors, and many animals have been created that express GFP, which demonstrates a proof of concept that a gene can be expressed WB throughout a given organism, in selected organs, or in cells of interest. GFP can be introduced into animals or other species through transgenic techniques, and maintained in their genome Reactivity: and that of their offspring. To date, GFP has been expressed in many species, including bacteria, yeasts, fungi, fish and mammals, including in human cells. Scientists Roger Y. Tsien, Osamu Shimomura, and Martin Chalfie were awarded the 2008 Nobel Prize in Chemistry on 10 October 2008 for their discovery and development of the green fluorescent protein. **Antibody Information** Immunogen information **Recommended dilutions:** Gene ID: WB 1:2000 - 1:5000 Source: Uniprot Mouse Isotype: Synonyms: IgG GFP; GFP tag; GFP-tag **Purification:** Immunogen:

Storage:

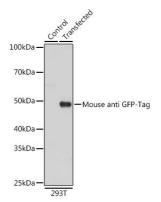
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

A synthetic peptide corresponding to a sequence within amino

acids 1-100 to the N-terminus of GFP protein.

Affinity purification

Product Images



Western blot - Mouse anti GFP-Tag mAb (CABE072)