Affinity Gel-conjugated Mouse anti GFP-Tag Monoclonal Antibody



CABE064

Product Information	Protein Background		
Size:	The green fluorescent protein (GFP) is a protein composed of 238 amino acid residues (26.9		
200 UI	kDa) that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet range. Although many other marine organisms have similar green fluorescent proteins, GFP		
Observed MW: Refer to Figures	traditionally refers to the protein first isolated from the jellyfish Aequorea victoria. The GFP 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. 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
27kDa	many forms of biology due to its ability to form internal chromophore without requiring any accessory cofactors, gene products, or enzymes / substrates other than molecular oxygen.		
Applications: IP Reactivity:	In cell and molecular biology, the GFP gene is frequently used as a reporter of expression. It 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 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 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: IP 1:50 - 1:200	Gene ID:
Source: Mouse	Uniprot		
Isotype: IgG	Synonyms: GFP; GFP tag; GFP-tag		
Purification:	Immunogen:		
Affinity purification	A synthetic pontide corresponding to a sequence within amino		

A synthetic peptide corresponding to a sequence within amino

Store at 4°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02%

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

sodium azide, 50% glycerol, pH7.3.

Storage: