

Epitope Tag Antibody Sampler Kit

Cat# AK0153

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties. Several different epitope tags are now commonly utilized and readily available. For instance, a variety of plasmids contain DNA that encodes an amino-terminal tag consisting of six histidine (6xHis) residues followed by an extended multiple cloning site. The 6xHis tag on the expressed recombinant proteins allows for efficient coupling to Ni²⁺ affinity resins and purification by single step chromatography. As is the case with other protein tag systems, this polyhistidine tag can often be cleaved at sites recognized by proteases such as thrombin and enterokinases to isolate the protein of interest. Glutathione S-transferase (GST) is another widely used fusion partner, since it provides both an easily detectable Tag and a simple purification process with little effect on the biological function of the protein of interest. Numerous vectors containing GST-Tag have been developed for both prokaryotic and eukaryotic systems over the past decade. The HA tag, derived from an epitope of the influenza hemagglutinin protein, has also been extensively used as a general epitope tag in expression vectors, while the Myc epitope tag is routinely used to detect expression of recombinant proteins in bacteria, yeast, insect and mammalian cell systems. Finally, the DYKDDDDK peptide has been used extensively as a general epitope tag in expression vectors and consists of only eight amino acids. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A330105	GST-Tag Monoclonal Antibody	20µL	WB		Mouse
A330102	Myc-Tag Monoclonal Antibody	20µL	WB, IF, IP		Mouse
A330103	HA-Tag Monoclonal Antibody	20µL	WB, IF, IP		Mouse
A330104	His-Tag Monoclonal Antibody	20µL	WB, IF, IP		Mouse
A330101	Flag-Tag Monoclonal Antibody	20µL	WB, IF, IP		Mouse
A1012s	Goat Anti-Mouse IgG (H+L) (peroxidase/HRP conjugated)	120µL	WB, ELISA	Mouse	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.