

# Epitope Tag Alexa Fluor® 488 Conjugated Antibody Sampler Kit



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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
DYKDDDDK Tag Antibody (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody) (Alexa Fluor® 488 Conjugate)	5407	40 µl		Rabbit
GST-Tag (26H1) Mouse mAb (Alexa Fluor® 488 Conjugate)	3368	40 µl		Mouse IgG2a
HA-Tag (6E2) Mouse mAb (Alexa Fluor® 488 Conjugate)	2350	40 µl		Mouse IgG1
Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 488 Conjugate)	2279	40 µl		Mouse IgG2a kappa
Mouse (MOPC-21) mAb IgG1 Isotype Control (Alexa Fluor® 488 Conjugate)	4878	40 µl		Mouse IgG1
Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 488 Conjugate)	2975	40 µl		Rabbit IgG

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

## Description

The Epitope Tag Alexa Fluor® 488 Conjugated Antibody Sampler Kit provides an economical means to monitor the presence of proteins labeled with HA, GST, Myc, or DYKDDDDK (FLAG) tags without the need for a fluorescent secondary antibody.

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Background

Epitope tags are useful for the labeling and detection of proteins using flow cytometry and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties. HA tag is derived from an epitope of the influenza hemagglutinin protein, which has been extensively used as a general epitope tag in expression vectors (1). Glutathione S-transferase (GST) is a 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 (2-4). Myc epitope tag is widely used to detect expression of recombinant proteins in bacteria, yeast, insect, and mammalian cell systems (5). DYKDDDDK peptide has been used extensively as a general epitope tag in expression vectors. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion (6).

## Background References

1. Field, J. et al. (1988) *Mol Cell Biol* 8, 2159-65.
2. Guan, K.L. and Dixon, J.E. (1991) *Anal Biochem* 192, 262-7.
3. Davies, A.H. et al. (1993) *Biotechnology (N Y)* 11, 933-6.
4. Yu, J. et al. (1998) *Mol Cell Biol* 18, 1379-87.
5. Munro, S. and Pelham, H.R. (1984) *EMBO J* 3, 3087-93.
6. Brizzard, B.L. et al. (1994) *Biotechniques* 16, 730-5.

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