

DYKDDDDK Tag Antibody (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody) (Alexa Fluor® 647 Conjugate)



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100 µl
 (50 tests)

New more concentrated formulation

rev. 07/28/11

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity	Source
IF-IC, F Transfected	All	Rabbit

Description: This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis in cells transiently transfected with a DYKDDDDK-tagged fusion protein.

Background: Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties.

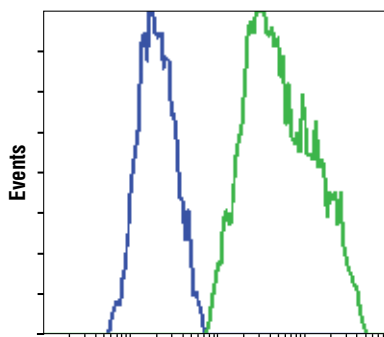
The DYKDDDDK peptide has been used extensively as a general epitope tag in expression vectors. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion (1).

Specificity/Sensitivity: DYKDDDDK Tag Antibody (Alexa Fluor® 647 Conjugate) detects exogenously expressed DYKDDDDK proteins in cells. The antibody recognizes the DYKDDDDK peptide (the same epitope recognized by Sigma's Anti-FLAG® antibodies) fused to either the amino- or carboxy-terminus of targeted proteins. The binding specificity of this antibody is NOT dependent on the presence of divalent metal cations.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic DYKDDDDK peptide. Antibodies are purified by protein A and peptide affinity chromatography.

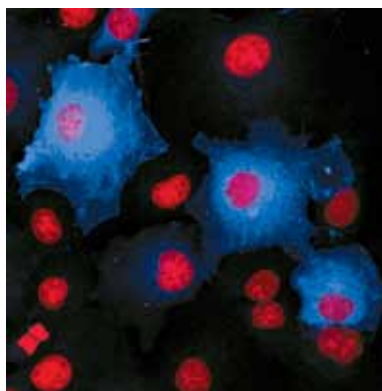
Background References:

- (1) Brizzard, B. L. et al. (1994) *Biotechniques* 16, 730–735.



DYKDDDDK Tag (Alexa Fluor® 647 Conjugate)

Flow cytometric analysis of COS cells, either untransfected (blue) or transfected with a DYKDDDDK-tagged fusion protein, using DYKDDDDK Tag Antibody (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody) (Alexa Fluor® 647 Conjugate) (green).



Confocal immunofluorescent analysis of COS cells transiently transfected with a FLAG-tagged protein using DYKDDDDK Tag Antibody (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody) (Alexa Fluor® 647 Conjugate) (blue pseudocolor). Red = Propidium Iodide (fluorescent DNA dye).

Storage: Supplied in PBS (pH 7.2), 2 mg/ml BSA and less than 0.1% sodium azide. Store at 4°C. *Protect from light. Do not freeze.*

Recommended Antibody Dilutions:

Immunofluorescence (IF-IC) 1:100
 Flow Cytometry 1:50

For application specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended companion products.

The Alexa Fluor® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc., for research use only, except for use in combination with DNA microarrays. The Alexa Fluor® dyes (except for Alexa Fluor® 430 dye) are covered by pending and issued patents. Alexa Fluor® is a registered trademark of Molecular Probes, Inc.

Anti-FLAG® is a registered trademark of Sigma-Aldrich.