Revision 3

Store at -20C

#2368

DYKDDDDK Tag Antibody (Binds to same epitope as Sigma-Aldrich Anti-FLAG M2 antibody)

Cell Signaling TECHNOLOGY®

Orders:	877-616-CELL (2355)
	orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com
	cellsignal.com

3 Trask Lane | **Danvers** | **Massachusetts** | **01923** | **USA**

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Sensitivity:	Source:
WB, IP, FC-FP	Transfected Only	Rabbit

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50
Flow Cytometry (Fixed/Permeabilized)	1:200

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

Specificity / Sensitivity
DYKDDDDK Tag Antibody detects exogenously expressed DYKDDDDK proteins in cells. The antibody recognizes the DYKDDDDK peptide (the same epitope recognized by Sigma-Aldrich Anti-FLAG M2 antibody) 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
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.

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).

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

Species Reactivity
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key
WB: Western Blotting **IP:** Immunoprecipitation **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key
H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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