

# DYKDDDDK Tag Antibody (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody)

✓ 100 µl  
(10 Western mini-blots)

**Orders** ■ 877-616-CELL (2355)  
orders@cellsignaling.com  
**Support** ■ 877-678-TECH (8324)  
info@cellsignaling.com  
**Web** ■ www.cellsignaling.com

rev. 08/13/09

This product is for *in vitro* research use only and is not intended for use in humans or animals.  
This product is not intended for use as a therapeutic or in diagnostic procedures.

| Applications                       | Species Cross-Reactivity* | Source   |
|------------------------------------|---------------------------|----------|
| W, IP, IHC-P, IF-IC<br>Transfected | All                       | Rabbit** |

**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).

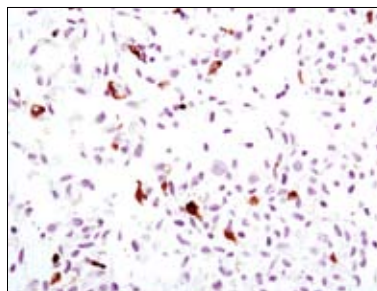
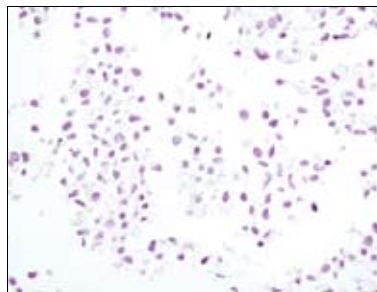
**Specificity/Sensitivity:** DYKDDDDK Tag Antibody detects exogenously expressed DYKDDDDK proteins in cells. The antibody recognizes the DYKDDDDK peptide (the same epitope recognized by Sigma's Anti-FLAG® antibodies) fused to either the amino- or carboxy-terminus of targeted proteins.

The binding specificity of this antibody is NOT dependent on the presence of divalent metal cations.

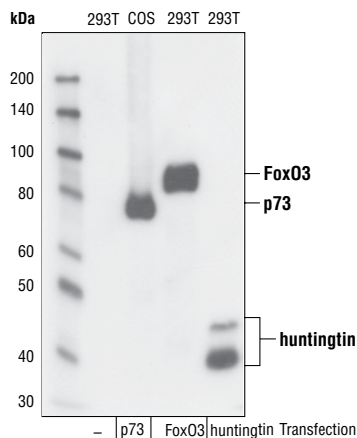
**Source/Purification:** Polyclonal antibodies are produced by immunizing rabbits with a synthetic DYKDDDDK peptide (KLH-coupled). Antibodies are purified by protein A and peptide affinity chromatography.

#### Background References:

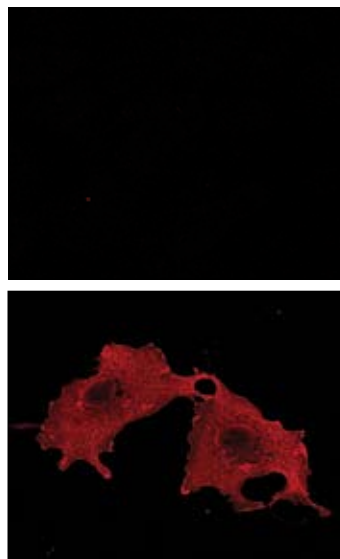
(1) Brizzard, B.L. et al. (1994) *Biotechniques* 16, 730–735.



Immunohistochemical analysis of paraffin-embedded COS cells, control (upper) or DYKDDDDK-FKHRL1 transfected (lower), using DYKDDDDK-Tag Antibody.



Western blot analysis of extracts from COS or 293T cells, mock transfected (lane 1) or expressing DYKDDDDK-tagged p73 (lane 2), DYKDDDDK-tagged FKHL1 (lane 3) or truncated DYKDDDDK-tagged huntingtin (lane 4), using DYKDDDDK Tag Antibody.



◀ Confocal immunofluorescent analysis of COS cells, untransfected (upper) or transfected with a construct overexpressing DYKDDDDK-tagged FKHL1 (lower) using DYKDDDDK Tag Antibody.

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

#### Recommended Antibody Dilutions:

|                                 |            |
|---------------------------------|------------|
| Western blotting                | 1:1000     |
| Immunoprecipitation             | 1:50       |
| Immunohistochemistry (Paraffin) | 1:500      |
| Unmasking buffer:               | Citrate    |
| Antibody diluent:               | TBST-5%NGS |
| Immunofluorescence (IF-IC)      | 1:800      |

For application specific protocols please see the web page for this product at [www.cellsignaling.com](http://www.cellsignaling.com).

Please visit [www.cellsignaling.com](http://www.cellsignaling.com) for a complete listing of recommended companion products.

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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