

#3444 Store at 4°C

# HA-Tag (6E2) Mouse mAb (Alexa Fluor® 647 Conjugate)

✓ 100 µl (50 tests)

New more concentrated formulation



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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 | Isotype    |
|----------------------|--------------------------|------------|
| IF-IC, F Transfected | All                      | Mouse IgG1 |

**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 transfected with HA-tagged protein.

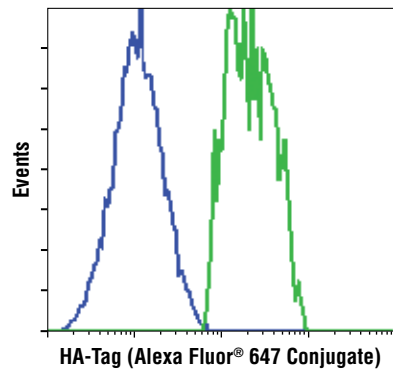
**Background:** Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties.

The 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).

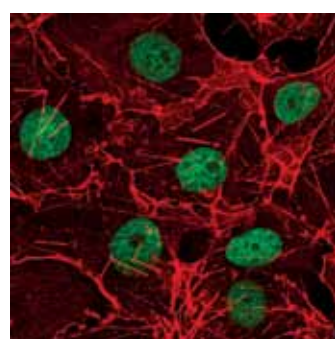
**Specificity/Sensitivity:** HA-Tag (6E2) Mouse mAb (Alexa Fluor® 647 Conjugate) detects recombinant proteins containing the HA epitope tag. The antibody recognizes the HA-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide containing the influenza hemagglutinin epitope (YPYDVPDYA). The antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.

**Background References:**  
(1) Field, J. et al. (1988) *Mol Cell Biol* 8, 2159-65.



Flow cytometric analysis of COS cells, untransfected (blue) or transfected with HA-tagged DLL1 (green), using HA-Tag (6E2) Mouse mAb (Alexa Fluor® 647 Conjugate).



Confocal immunofluorescent analysis of COS cells, untransfected (left) or transfected with an HA-tagged protein (right), using HA-Tag (6E2) Mouse mAb (Alexa Fluor® 647 Conjugate) (blue pseudocolor) and Di-Methyl-Histone H3 (Lys27) Antibody #9755 (green). Actin filaments were labeled with DY-554 phalloidin (red).

**Storage:** Supplied in PBS (pH 7.2), 2mg/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.cellsignal.com](http://www.cellsignal.com).

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

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected