

**HA Tag Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1012A****Specification**

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**HA Tag Antibody - Product Information**

Application	<b>IF, CHIP, WB,E</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>

**HA Tag Antibody - Additional Information****Other Names**

Glutathione S-transferase

**Target/Specificity**

KLH conjugated synthetic peptide encoding HA tag (CYPYDVPDYAYPYDVPDYA) was used as antigen.

**Dilution**

IF~~1:10~50

CHIP~~1:100

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HA Tag Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

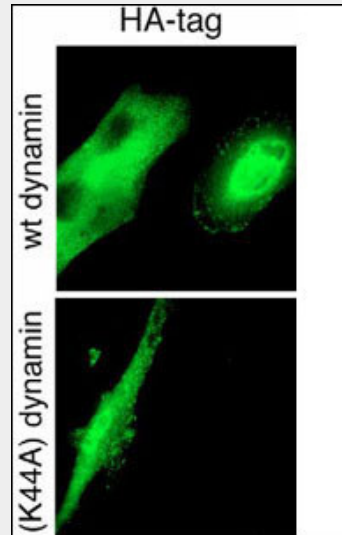
**HA Tag Antibody - Protein Information****HA Tag Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

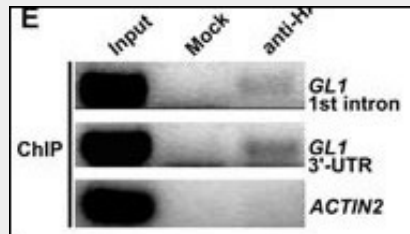
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

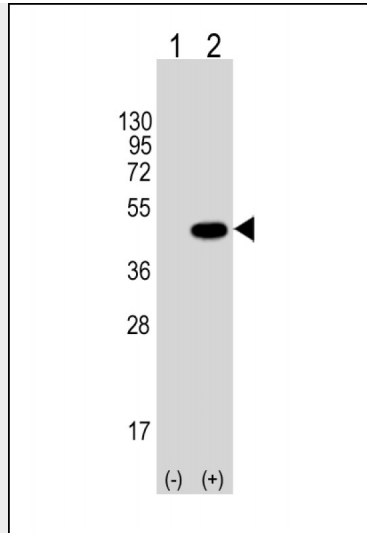
### HA Tag Antibody - Images



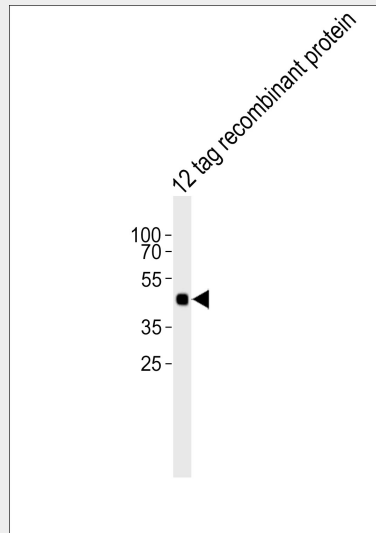
GTPase activity of dynamin-2 is required for endocytosis of cell-surface tTG. MRC-5 fibroblasts were transiently transfected with either wild-type (wt) or a GTPase-deficient dynamin-2 mutant (K44A) with a hemagglutinin (HA) tag. (Provided by Evgeny A. Zemskov, Irina Mikhailenko: *Journal of Cell Science* 120, 3188-3199 (2007))



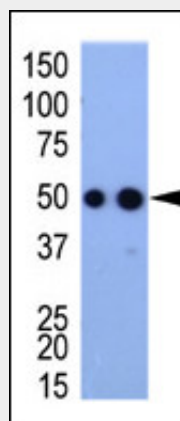
ChIP was performed with 35S:HATCL1 plants using anti-HA antibodies. Rabbit preimmune serum was used as a mock control. Primer sets specific for the first intron or the 3-UTR region of GL1 were used in PCR reactions. ACTIN2 provided a control. (Provided by Shucui Wang, Su-Hwan Kwak: *Development* 134, 3873-3882 (2007))



Western blot analysis of Tag-HA. 2x Antibody (arrow) using rabbit polyclonal AP1012A (Cat. #AP1012A). 293T/17 cell lysates either nontransfected (Lane 1) or transiently transfected (Lane 2) with 41kDa HA tagged vector.



Western blot analysis of lysate from 12 tag recombinant protein cell line, using Tag-HA. 2x Antibody (Cat. #AP1012A). AP1012A was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Western blot analysis of anti-HA tag pab (Cat. #AP1012a) in HA-tagged recombinant protein

bacterial lysate.

## HA Tag Antibody - Background

Epitope tags consisting of short sequences recognized by well-characterized antibodies have been widely used in the study of protein expression in various systems. The HA tag (YPYDVPDYAYPYDVPDYA) is an established example. Abgent's anti-HA polyclonal antibody provides a simple solution to detect the expression of an HA-tagged protein in cells.

## HA Tag Antibody - References

Marco. et.al., J Biol Chem. (2009) February 6; 284(6): 3577-3585. Kolodziej, PA and Young RA. (1991) Methods Enzymol., 194:508-19. Sells MA and Chernoff J. (1995) Gene, 152:187-9.

## HA Tag Antibody - Citations

- [The allosteric glycogen synthase kinase-3 inhibitor NP12 limits myocardial remodeling and promotes angiogenesis in an acute myocardial infarction model.](#)
- [Andersen's syndrome mutants produce a knockdown of inwardly rectifying K<sup>+</sup> channel in mouse skeletal muscle in vivo.](#)
- [A C-terminally truncated mouse Best3 splice variant targets and alters the ion balance in lysosome-endosome hybrids and the endoplasmic reticulum.](#)
- [Grp94 Delivers  \$\gamma\$ -aminobutyric Acid Type A \(GABAA\) Receptors to Hrd1-Mediated Endoplasmic Reticulum-Associated Degradation.](#)
- [DELLA Proteins Interact with FLC to Repress the Flowering Transition.](#)
- [Suppression of death receptor 5 enhances cancer cell invasion and metastasis through activation of caspase-8/TRAF2-mediated signaling.](#)
- [Increased acid ceramidase expression depends on upregulation of androgen-dependent deubiquitinases, USP2, in a human prostate cancer cell line, LNCaP.](#)
- [L-type Calcium Channel Blockers Enhance Trafficking and Function of Epilepsy-associated  \$\alpha\$ 1\(D219N\) Subunits of GABAA Receptors.](#)
- [Sequential Elution Interactome Analysis of the Mind Bomb 1 Ubiquitin Ligase Reveals a Novel Role in Dendritic Spine Outgrowth.](#)
- [mTOR complex 2 stabilizes Mcl-1 protein by suppressing its GSK3-dependent and SCF-FBXW7-mediated degradation.](#)
- [mTOR complex 2 is involved in regulation of Cbl-dependent c-FLIP degradation and sensitivity of TRAIL-induced apoptosis.](#)
- [The novel Akt inhibitor API-1 induces c-FLIP degradation and synergizes with TRAIL to augment apoptosis independent of Akt inhibition.](#)
- [Oncogenic Ras and B-Raf proteins positively regulate death receptor 5 expression through co-activation of ERK and JNK signaling.](#)
- [The NEDD8-activating enzyme inhibitor, MLN4924, cooperates with TRAIL to augment apoptosis through facilitating c-FLIP degradation in head and neck cancer cells.](#)
- [The eIF4E/eIF4G interaction inhibitor 4EGI-1 augments TRAIL-mediated apoptosis through c-FLIP Down-regulation and DR5 induction independent of inhibition of cap-dependent protein translation.](#)
- [Dissection of the relationship between RACK1 and heterotrimeric G-proteins in Arabidopsis.](#)
- [Constitutive internalization of G protein-coupled receptors and G proteins via clathrin-independent endocytosis.](#)
- [Involvement of c-FLIP and survivin down-regulation in flexible heteroarotinoid-induced apoptosis and enhancement of TRAIL-initiated apoptosis in lung cancer cells.](#)
- [TRICHOMELESS1 regulates trichome patterning by suppressing GLABRA1 in Arabidopsis.](#)
- [Cell-surface transglutaminase undergoes internalization and lysosomal degradation: an essential role for LRP1.](#)
- [Cellular FLICE-inhibitory protein down-regulation contributes to celecoxib-induced apoptosis in human lung cancer cells.](#)