

## Anti-HA.11 Epitope Tag Affinity Matrix (Previously Covance catalog# AFC-101P)

<b>Catalog# / Size</b>	900801 / 1 mL
<b>Clone</b>	16B12
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Hemagglutinin tag, HA tag
<b>Previously</b>	Covance Catalog# AFC-101P
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	The HA tag (hemagglutinin) is an amino acid sequence derived from the human influenza hemagglutinin surface glycoprotein, corresponding to amino acids 98-106. It is commonly used as a tag to facilitate detection, isolation, and purification of proteins. The full amino acid sequence is: YPYDVDPDYA.

### Product Details

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<b>Verified Reactivity</b>	YPYDVDPDYA Tag
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Monoclonal antibody HA.11 was raised against the twelve amino acid peptide CYPYDVDPDYASL.
<b>Formulation</b>	Purified IgG immobilized on Sepharose™ Fast Flow beads (in PBS + 0.03% Thimerosal).
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Storage &amp; Handling</b>	Store between 2-8°C. The matrix may be re-used several times. To strip column after use, wash with several bead volumes of 0.1 M glycine pH 2.8 followed immediately by PBS containing 0.3% Thimerosal or 1mM Sodium Azide as preservative.
<b>Application</b>	<a href="#">Purification, IP</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by immunoprecipitation.</p> <p>The optimal buffers and matrix concentration should be determined for each specific assay condition.</p> <p><i>Binding:</i> Tagged protein will bind to matrix in common physiologic buffers with pH in the range of 6.0-7.5, salt from 50-500 mM and in the presence of reasonable levels of detergent. Excess reducing agent should be avoided as the disulfide bridges holding antibody heavy and light chains may be compromised. BioLegend tests Affinity Matrix using an equilibration/binding buffer containing:</p> <ul style="list-style-type: none"><li>• 100 mM Tris-HCl (pH 7.5)</li><li>• 150 mM NaCl</li><li>• 0.1% Tween 20</li><li>• 0.5% BSA</li><li>• 1 mM beta-mercaptoethanol</li></ul> <p><i>Washing:</i> After binding, washes with several bead volumes of buffer are recommended. Such buffer may contain increased salt, altered pH, etc. as determined empirically to remove un-tagged proteins.</p> <p><i>Elution:</i> Several options are available for elution.</p> <ol style="list-style-type: none"><li>1. SDS gel loading buffer may be applied directly to the beads in order to display all bound protein on a polyacrylamide gel/western. Note that gel loading buffer containing reducing agent will also release some antibody heavy and light chains (approx 25 and 50kD, respectively).</li><li>2. Competitive elution with epitope peptide. For epitope tag affinity matrices, prepare an elution buffer with epitope tag peptide at 400 ug/mL in 50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM EDTA (pH 8.0).</li><li>3. Chemical Elution. Elution by pH or chaotropic salts is also possible. For elution by pH, either 0.1 M glycine pH 2.8 or 40 mM diethyl-amine pH 11.0 may be used.</li></ol>

## Application Notes

This affinity matrix can be used for immunopurification of HA-tagged fusion proteins from crude starting material. On an analytical scale, it can also be used for immunoprecipitating HA-tagged proteins.

Monoclonal mouse antibody HA.11 recognizes the peptide epitope, YPYDVPDYA. This second-generation HA antibody is an excellent substitute for the 12CA5 monoclonal antibody. The HA.11 antibody recognizes HA epitopes located in the middle of protein sequences as well as at the N- or C-terminus.

HA.11 antibody was purified using protein-G chromatography and was subsequently immobilized onto a Sepharose™ Fast Flow matrix.

Sepharose is a trademark of Amersham Biosciences Limited

## Application References

1. Ferrando A, *et al.* 2001. *Nucleic Acids Res.* 29:3685.
2. J Field, *et al.* 1988. *Mol Cell Biol.* 8:2159.
3. Bennett BD, *et al.* 2000. *J Biol Chem.* 275:37712. (IF, IP, WB) [PubMed](#)

## Product Citations

1. Mitxelena J, *et al.* 2016. *Nucleic Acids Res.* 44: 5557 - 5570. [PubMed](#)
2. Alkan F, *et al.* 2021. *Bioinformatics.* 37:2659. [PubMed](#)
3. Karunakaran MM, *et al.* 2020. *Immunity.* 52:487. [PubMed](#)
4. Sivadasan R, *et al.* 2016. *Nat Neurosci.* 10.1038/nn.4407. [PubMed](#)
5. Gay S, *et al.* 2018. *Mol Cell.* 8:e2728. [PubMed](#)
6. Srinivasan B, *et al.* 2021. *PLoS Biol.* 19:e3001432. [PubMed](#)
7. Bennett B, *et al.* 2000. *J Biol Chem.* 275:37712-37717. [PubMed](#)
8. Dickey D, *et al.* 2016. *J Biol Chem.* 291: 11385 - 11393. [PubMed](#)

## RRID

AB\_2564999 (BioLegend Cat. No. 900801)

## Antigen Details

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### Biology Area

Cell Biology

### Gene ID

NA

## Other Formats

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Anti-HA.11 Epitope Tag Affinity Matrix, Alexa Fluor® 488 anti-HA.11 Epitope Tag, Alexa Fluor® 594 anti-HA.11 Epitope Tag, Anti-HA.11 Epitope Tag, Biotin anti-HA.11 Epitope Tag, FITC anti-HA.11 Epitope Tag, Purified anti-HA.11 Epitope Tag, Alexa Fluor® 647 anti-HA.11 Epitope Tag, PE anti-HA.11 Epitope Tag, Direct-Blot™ HRP anti-HA.11 Epitope Tag, Ultra-LEAF™ Purified anti-HA.11 Epitope Tag, Brilliant Violet 421™ anti-HA.11 Epitope Tag, PE/Dazzle™ 594 anti-HA.11 Epitope Tag, PE/Cyanine7 anti-HA.11 Epitope Tag, Pacific Blue™ anti-HA.11 Epitope Tag, APC anti-HA.11 Epitope Tag, PerCP/Cyanine5.5 anti-HA.11 Epitope Tag, TotalSeq™-C1131 anti-HA.11 Epitope Tag, TotalSeq™-A1131 anti-HA.11 Epitope Tag, TotalSeq™-B1131 anti-HA.11 Epitope Tag

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