

Product Specification Sheet

Rabbit Anti-HA epitope/fusion tag Antibodies

Cat. HA11-S	Rabbit Anti-HA epitope/fusion tag antiserum	SIZE: 100 ul
Cat. HA11-A	Rabbit Anti HA epitope/fusion tag Ig G (aff pure)	SIZE: 100 ug
Cat. HA11-P	HA epitope/fusion tag Control peptide	SIZE: 100 ug
Cat. HA11-C	Recombinant Hemeagglutinin-tag (HA-tag)-Fusion protein for Western	SIZE: 100 ul

Expression of genes in E. coli or yeast or baculovirus offers a convenient system to produce large amounts of recombinant proteins that may otherwise be difficult to isolate from natural cells and tissues. Very often antibodies to these newly identified proteins are not available to study its biochemical properties, monitor protein expression, and purification. In order to circumvent this problem, short pieces of well-defined peptides (**Poly-His, Flag-epitope or c-myc epitope or HA-tag**) or small proteins (**bacterial GST, MBP, Thioredoxin, b-Galactosidase, VSV-Glycoprotein etc**) are often cloned along with the target gene. Proteins are expressed as fusion proteins. Antibodies to these fusion-tags are already available to monitor fusion protein expression and purification. Therefore, fusion-tags serve as universal tags much like secondary antibodies.

Source of Antigen and Antibodies

Antigen	A 9-aa peptide sequence (designated HA11-P; control peptide) from hemagglutinin influenza virus (aa 114-122; YPY DVP DYA) (1) was synthesized and coupled to KLH
Ab Host/type	Rabbit, Polyclonal antiserum # HA11-S and IgG, purified over antigen-agarose (Cat # HA11-A)
2-Ab	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available).
-ve control IgG	Cat # 20009-1, Rabbit (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as -ve control

Hemeagglutinin-tag (HA-tag) represents a 9-aa peptide sequence (**designated HA11-P; control peptide**) from hemagglutinin influenza virus (aa 114-122; YPY DVP DYA) (1). The HA-tag was expressed as N-terminal fusion protein of ~9.5 kDa in E. coli and purified to >95%. For Western blot +ve control (**Cat # HA11-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of HA11-C for good visibility with antibody Cat # HA11-S or #HA12-A antibodies. The HA11-C protein migrate as ~9.5 kDa band. It will be necessary to have proper size gel (e.g., 10% or 4-10% for proper resolution of small protein. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming and light mixing at room temperature. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the HA11-C solution

prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. This preparation is intended for qualitative purpose and not to serve as standard of known concentration. Do not freeze, thaw, or heat repeatedly.

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

100ul solution lyophilized powder
Supplied 0.05% azide, **Reconstitute** powder in 100 ul PBS

Affinity pure IgG

100 ug/100ul solution lyophilized powder
Supplied in **Buffer:** PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide

100 ug/100 ul solution lyophilized powder
Supplied in **Buffer:** PBS pH 7.5,
Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at -20oC and powder at 4oC or -20oC..

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Recommended Usage

Western Blotting (1:1K-5K using Chemiluminescence technique). Antibodies react with native and denatured his-tag containing proteins.

ELISA (1:10-50K; using 50-100 ng control antigen/well).

Histochemistry & Immunofluorescence: We recommend the use of affinity pure antibody at 10-50 ug/ml.

General References:

Muster T et al (1995) J Virol. 69, 6678-6686

*This product is for In vitro research use only.

Other Fusion tag antibodies available from ADI

Anti-MBP, Poly-His, GST, beta-Gal, VSV-G, Flag, HA-tag, and c-myc

Western Blot Recycling Kit (Strips blots in 5 minutes) and re-use the same blot with multiple antibodies
HA11-S-A-P-C 71215A