Gold Nanoparticles, Anti-6X His
PRODUCT DATA SHEET

Gold Nanoparticles, Anti-6X His

Description

Anti-6X His IgG is an antibody produced in mouse that binds specifically to a sequence of 6 repeating histidine residues, known as a His tag. These His tags are typically expressed at either the C- or N-terminal regions of recombinant proteins and aid in purification and isolation using immobilized metal affinity chromatography. His tags have a strong affinity for Ni^{2+} through chelation. Abvigen anti-6X His conjugated gold nanoparticles are suitable for use in applications such as lateral flow, immunoblotting, light microscopy, and electron microscopy.

Product List

Cat No	Product Name	Concentration	Size
ABGN-5-A6X His	Gold Nanoparticles, 5 nm, Anti-6X His	OD 3	0.5 mL
ABGN-10-A6X His	Gold Nanoparticles, 10 nm, Anti-6X His	OD 3	0.5 mL
ABGN-15-A6X His	Gold Nanoparticles, 15 nm, Anti-6X His	OD 3	0.5 mL
ABGN-20-A6X His	Gold Nanoparticles, 20 nm, Anti-6X His	OD 3	0.5 mL
ABGN-30-A6X His	Gold Nanoparticles, 30 nm, Anti-6X His	OD 3	0.5 mL
ABGN-40-A6X His	Gold Nanoparticles, 40 nm, Anti-6X His	OD 3	0.5 mL
ABGN-50-A6X His	Gold Nanoparticles, 50 nm, Anti-6X His	OD 3	0.5 mL
ABGN-60-A6X His	Gold Nanoparticles, 60 nm, Anti-6X His	OD 3	0.5 mL
ABGN-70-A6X His	Gold Nanoparticles, 70 nm, Anti-6X His	OD 3	0.5 mL
ABGN-80-A6X His	Gold Nanoparticles, 80 nm, Anti-6X His	OD 3	0.5 mL
ABGN-90-A6X His	Gold Nanoparticles, 90 nm, Anti-6X His	OD 3	0.5 mL
ABGN-100-A6X His	Gold Nanoparticles, 100 nm, Anti-6X His	OD 3	0.5 mL

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Characteristics

Core size range: 5 nm ~ 100 nm

Concentration: OD=3

Conjugated protein: Mouse Anti-6X His Antibody

Working dilution: 1:10 ~ 1:100 (application dependent, optimization might be required)

Storage buffer: 10 mM PBS (pH 7.4), 20% glycerol (v/v), 1% BSA

Applications

Sensitive probe for detection of recombinant proteins with a C-terminal, N-terminal, or internal 6X Histidine epitope.

Suitable for use in immunoblotting, lateral flow assays, light microscopy, and electron microscopy applications among others.

Standard Immunogold Dot-Blot Protocol

(Adapted from Moeremans et al.)

1. Spot one microlitre drops of a serial dilution of your protein (1 ug ~ 1 ng) in PBS supplemented with 0.5 µg/mL of BSA on nitrocellulose or PVDF membrane.
2. Let protein drops dry into the membrane.
3. Block Membrane for 30 min using 1% (w/v) dry milk in 1X PBS at room temperature.
4. Incubate with primary antibody for 2 h at room temperature.
5. Wash membrane 3x5 min with blocking solution prepared as above.
6. Incubate for 2 h (or longer for increased sensitivity) with secondary gold conjugate diluted 1:10 (OD=0.3) times with blocking solution (0.2% Blocking Solution).
7. Wash 3x5 min as above.
8. Dry membrane and record data.
9. (OPTIONAL) Proceed with silver enhancement to improve sensitivity.

Storage and Stability

Store undiluted in storage buffer at 2-8°C. Stable for 4 months if stored as specified.

Storage of conjugate at working dilution may result in performance loss.

DO NOT FREEZE.

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161

Notes

This product is for R&D use only, not for drug, household, or other uses.

Ordering Information

Website: www.abvigen.com

Phone: +1 929-202-3014

Email: info@abvigenus.com

1378 US-206 Ste 6-126, Skillman, NJ USA
Email: info@abvigenus.com
Tel: 1-816-388- 0112 Fax: 1- 888-616-0161