



Gold Nanoparticles, Anti-FITC

PRODUCT DATA SHEET

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Description

Affinity isolated anti-fluorescein isothiocyanate (FITC) antibody produced in sheep and covalently coupled to gold nanoparticles. FITC is a fluorochrome dye that absorbs ultraviolet light and emits a yellow-green light when excited. This antibody can be used to detect FITC-labelled antibodies and proteins. Abvigen anti-FITC 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-AF	Gold Nanoparticles, 5 nm, Anti-FITC	OD 3	0.5 mL
ABGN-10-AF	Gold Nanoparticles, 10 nm, Anti-FITC	OD 3	0.5 mL
ABGN-15-AF	Gold Nanoparticles, 15 nm, Anti-FITC	OD 3	0.5 mL
ABGN-20-AF	Gold Nanoparticles, 20 nm, Anti-FITC	OD 3	0.5 mL
ABGN-30-AF	Gold Nanoparticles, 30 nm, Anti-FITC	OD 3	0.5 mL
ABGN-40-AF	Gold Nanoparticles, 40 nm, Anti-FITC	OD 3	0.5 mL
ABGN-50-AF	Gold Nanoparticles, 50 nm, Anti-FITC	OD 3	0.5 mL
ABGN-60-AF	Gold Nanoparticles, 60 nm, Anti-FITC	OD 3	0.5 mL
ABGN-70-AF	Gold Nanoparticles, 70 nm, Anti-FITC	OD 3	0.5 mL
ABGN-80-AF	Gold Nanoparticles, 80 nm, Anti-FITC	OD 3	0.5 mL
ABGN-90-AF	Gold Nanoparticles, 90 nm, Anti-FITC	OD 3	0.5 mL
ABGN-100-AF	Gold Nanoparticles, 100 nm, Anti-FITC	OD 3	0.5 mL

Characteristics

Core size range: 5 nm ~ 100 nm

Concentration: OD=3

Conjugated protein: Sheep Anti-FITC

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 fluorescein isothiocyanate labeled molecules.

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 μ g \sim 1 ng) in PBS supplemented with 0.5 μ g/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.

Notes

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

Ordering Information

Website: www.abvigen.com

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