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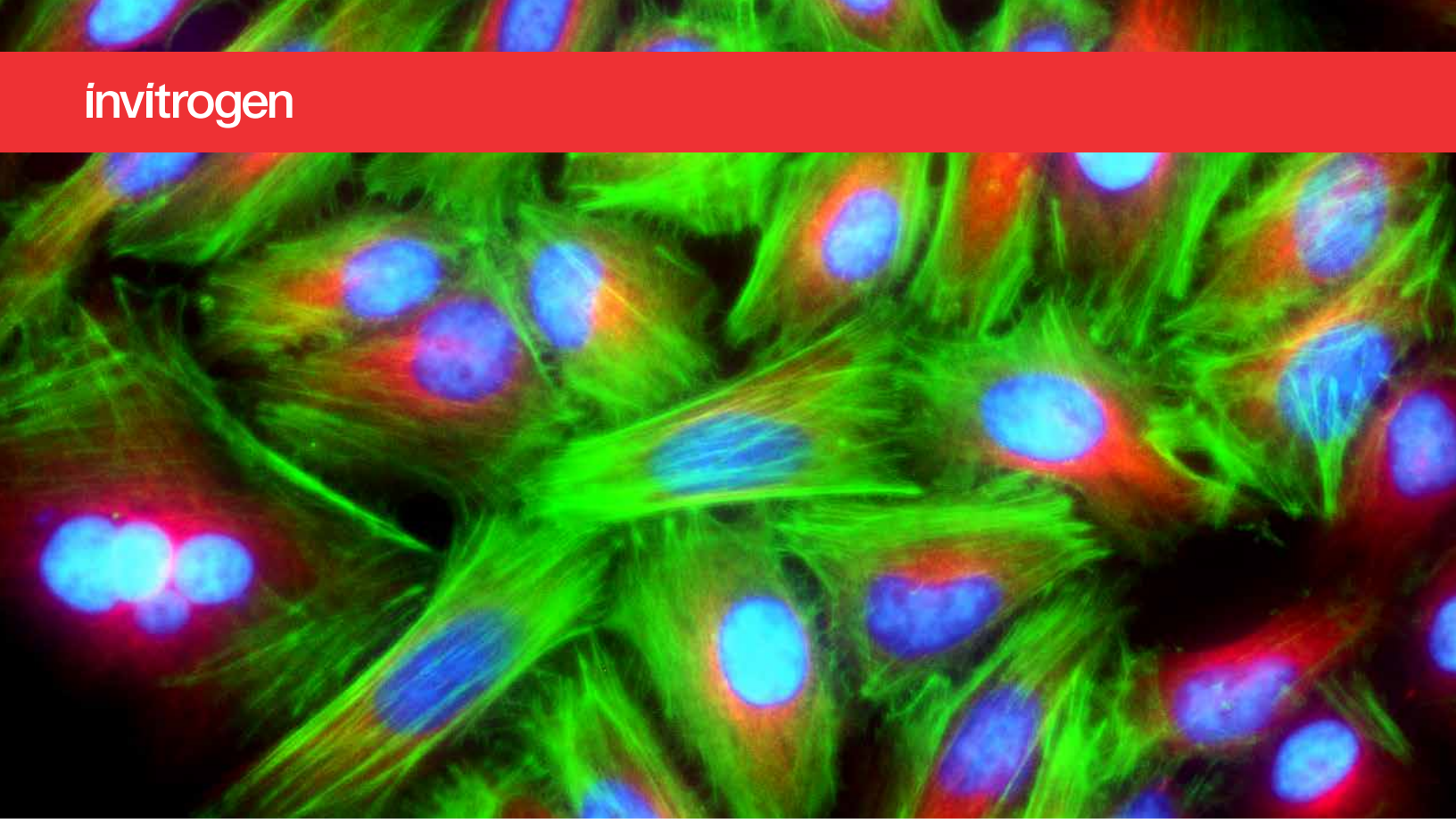


New Alexa Fluor conjugates for epitope tag and loading control antibodies

Epitope tag and fusion protein antibodies for your research

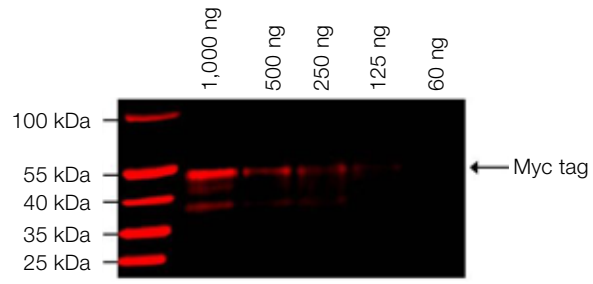
Invitrogen™ epitope tag antibodies are highly specific monoclonal and polyclonal antibodies with the most common dye and enzyme conjugates used by researchers. Epitope tags are frequently used on recombinant proteins from *E. coli*, yeast, insect, or mammalian cell cultures to enable researchers to selectively extract target proteins from the samples. Invitrogen epitope tag antibodies can be used for universal detection of target proteins in applications such as western blots, ELISA, immunofluorescence, and immunoprecipitation. We now offer a wide selection of Invitrogen epitope tag antibodies, including conjugates to biotin, HRP, Thermo Scientific™ DyLight™ dyes, and Invitrogen™ Alexa Fluor™ dyes for the most popular tags.

ThermoFisher SCIENTIFIC

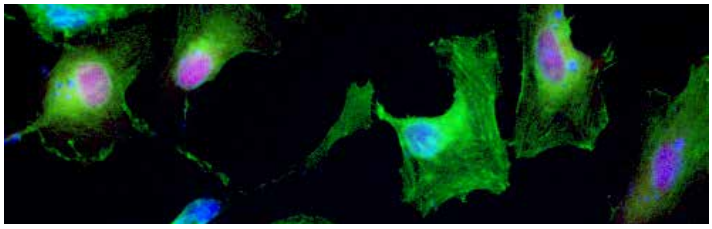
Epitope tag antibodies for direct labeling and multiplexing experiments*

Antibody	Unconjugated	Biotin	HRP	DyLight	Alexa Fluor (new)
FLAG Epitope Tag Antibody (FG4R)	MA1-91878	MA1-91878-BTIN	MA1-91878-HRP	MA1-91878-D488 MA1-91878-D550 MA1-91878-D650 MA1-91878-D680	
FLAG Epitope Tag Antibody (L5)	MA1-142				MA1-142-A488 MA1-142-A555 MA1-142-A647
His Epitope Tag Antibody (His.H8)	MA1-21315	MA1-21315-BTIN	MA1-21315-HRP	MA1-21315-D488 MA1-21315-D550 MA1-21315-D650 MA1-21315-D680	MA1-21315-A488 MA1-21315-A555 MA1-21315-A647
His Epitope Tag Antibody (4E3D10H2/E3)	MA1-135		MA1-135-HRP		MA1-135-A488 MA1-135-A555 MA1-135-A647
HA Antibody (2-2.2.14)	26183	26183-BTIN	26183-HRP	26183-D488 26183-D550 26183-D650 26183-D680	26183-A488 26183-A555 26183-A647
Myc Epitope Tag Antibody (myc.A7)	MA1-21316	MA1-21316-BTIN	MA1-21316-HRP	MA1-21316-D488 MA1-21316-D550 MA1-21316-D650 MA1-21316-D680	
Myc Epitope Tag Antibody (9E10)	MA1-980		MA1-980-HRP		MA1-980-A488 MA1-980-A555 MA1-980-A647
GST Antibody (8-326)	MA4-004	MA4-004-BTIN	MA4-004-HRP	MA4-004-D680	MA4-004-A488 MA4-004-A555 MA4-004-A647
GFP Antibody (GF28R)	MA5-15256	MA5-15256-BTIN	MA5-15256-HRP	MA5-15256-D650 MA5-15256-D680	
V5 Epitope Tag Antibody (E10/V4RR)	MA5-15253	MA5-15253-BTIN	MA5-15253-HRP	MA5-15253-D488 MA5-15253-D650 MA5-15253-D680	
V5 Epitope Tag Antibody (2F11F7)	37-7500				37-7500-A488 37-7500-A555

* These antibodies are available for a variety of target species, including human, mouse, rat, porcine, chicken, and others.



Western blot analysis with Invitrogen™ Myc Epitope Tag Antibody was performed by loading various amounts of *E. coli* lysate containing a multi-epitope–tagged protein in wells of a 4–20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST buffer for at least 1 hour. The membrane was probed with a Myc Epitope Tag Antibody (monoclonal, conjugated to DyLight™ 680 dye, Cat. No. MA1-21316-D680) at a dilution of 1:1,000 for 1 hour at room temperature on a rocking platform and washed in TBS with 0.1% Tween™ 20 detergent.



Immunofluorescence analysis of HeLa cells transfected with a construct containing a Myc epitope tag. Formalin-fixed cells were permeabilized with 0.1% Triton™ X-100 reagent in TBS for 10 minutes at room temperature and blocked with Thermo Scientific™ 1% Blocker™ BSA (Cat. No. 37525) for 15 min at room temperature. Cells were probed with a Myc Epitope Tag Antibody (monoclonal, conjugated to DyLight™ 650 dye, Cat. No. MA1-21316-D650) at a dilution of 1:25 for at least 1 hour at room temperature. F-actin (green) was stained with Invitrogen™ Phalloidin Control, DyLight™ 488 Conjugate (Cat. No. 21833), and nuclei (blue) were stained with Thermo Scientific™ Hoechst™ 33342 dye (Cat. No. 62249).

In addition to our most popular epitope tag and fusion protein antibodies, we offer antibodies to a variety of other protein and conjugate tags for your research needs.

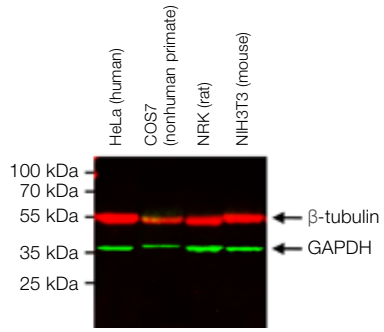
Tag, dye, and fusion protein antibodies for direct labeling and multiplexing experiments

Antibody	Target	Cat. No.
Biotin Antibody (BTN.4)	Biotin	MA5-11251
Horseradish Peroxidase (HRP) Antibody (HP-03)	HRP	MA1-10371
FITC Antibody (#9)	FITC	MA5-14696
Phycoerythrin B Antibody	Phycoerythrin B	PA1-28741
eGFP Tag Antibody	Enhanced GFP	MA1-952
TurboGFP Antibody	Full-length recombinant TurboGFP	PA5-22688
RFP Tag Antibody (RF5R)	Red fluorescent protein N-terminal peptide	MA5-15257
VSV-G Tag Antibody	YTDIEMNRLGK	PA1-29903
TAMRA Antibody (5G5)	TAMRA molecule	MA1-041
Maltose Binding Protein (MBP) Antibody	Recombinant maltose binding protein	PA1-989
TAP Tag Antibody	C-terminus of the TAP construct	CAB1001
TEV Cleavage Site Antibody	TEV cleavage site	PA1-119
BSA Antibody	BSA	PA5-23403
Streptavidin Antibody (S10D4)	Streptavidin	MA1-20010

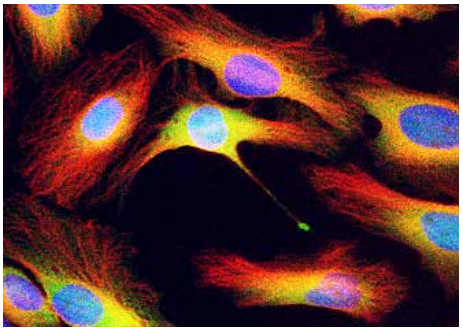
To search a complete list of epitope tag and fusion protein antibodies, go to **thermofisher.com/tagabs**

Conjugated and unconjugated loading control antibodies

Invitrogen™ loading control antibodies include antibodies against the most common loading and expression control proteins. Loading control antibodies are essential in the proper assessment of western blots and are used to compare the amount of protein loaded in each well across the gel. These controls help determine whether measured differences between samples are due to actual protein expression differences or due to variance in sample preparation loading. Loading control antibodies can also be used as complementary antibody stains for immunofluorescence studies with your protein of interest. We now offer loading control antibodies against GAPDH, β-actin, and β-tubulin, including conjugates to biotin, HRP, DyLight dyes, and Alexa Fluor dyes.



Western blot analysis of GAPDH and β-tubulin was performed by loading HeLa, COS7, NRK, and NIH/3T3 whole cell lysates (40 µg total protein each) onto a 4–20% Tris-HCl polyacrylamide gel. Proteins were transferred to a low-fluorescence PVDF membrane (Cat. No. 22860) and blocked with Thermo Scientific™ SEA BLOCK™ Blocking Buffer (Cat. No. 37527) for 1 hour. The membrane was probed with an Invitrogen™ Alexa Fluor™ 488–conjugated GAPDH monoclonal antibody (Cat. No. MA5-15738-A488) and an Alexa Fluor™ 647–conjugated β-tubulin monoclonal antibody (Cat. No. MA5-16308-A647) at a dilution of 1:250 for 1 hour at room temperature on a rocking platform, and washed in TBS with 0.1% Tween 20 detergent.



Immunofluorescence analysis of GAPDH (green) in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Tubulin filaments (red) were stained with a monoclonal α-tubulin antibody (Cat. No. 62204) followed by an Invitrogen™ Alexa Fluor™ 647–conjugated goat anti-mouse secondary antibody. GAPDH was stained with an Alexa Fluor 488–conjugated GAPDH monoclonal antibody (Cat. No. MA5-15738-A488) at a dilution of 1:50 for 1 hour at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye. Images were taken on a Thermo Scientific™ ToxInsight™ imaging system at 20x magnification.

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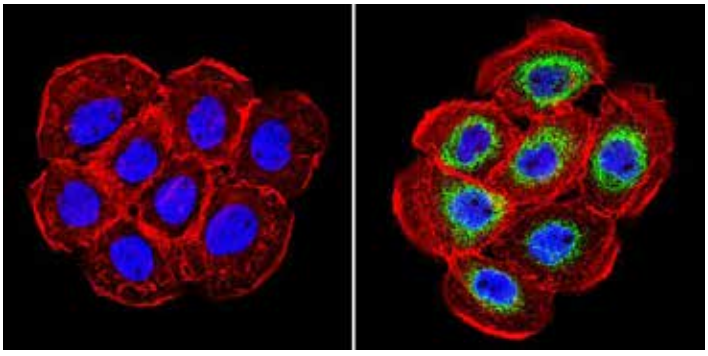
Loading control antibodies

Antibody	Unconjugated	Biotin	HRP	DyLight	Alexa Fluor (new)
GAPDH Antibody (GA1R)	MA5-15738	MA5-15738-BTIN	MA5-15738-HRP	MA5-15738-D488 MA5-15738-D550 MA5-15738-D650 MA5-15738-D680	MA5-15738-A488 MA5-15738-A555 MA5-15738-A647
Beta-Actin Antibody (BA3R)	MA5-15739	MA5-15739-BTIN	MA5-15739-HRP	MA5-15739-D488 MA5-15739-D550 MA5-15739-D650 MA5-15739-D680	
Beta-Actin Antibody (15G5A11/E2)	MA1-140				MA1-140-A488 MA1-140-A555 MA1-140-A647
Beta-Tubulin Antibody (BT7R)	MA5-16308	MA5-16308-BTIN	MA5-16308-HRP	MA5-16308-D488 MA5-16308-D550 MA5-16308-D650 MA5-16308-D680	MA5-16308-A488 MA5-16308-A555 MA5-16308-A647

In addition to our commonly used loading control antibodies in the table above, we offer unconjugated antibodies to a variety of other common loading control proteins.

Antibody	Target	Cat. No.
β-Gal Antibody	Recombinant β-galactosidase	MA1-152
γ-Tubulin Loading Control Antibody (4D11)	γ-Tubulin C-terminal peptide	MA1-850
α-Tubulin Loading Control Antibody (DM1A)	α-Tubulin	62204
Lamin A/C Loading Control Antibody (mab636)	Lamin A/C	MA3-1000
Cyclophilin A Loading Control Antibody	Cyclophilin A C-terminal peptide	PA1-025
Cyclophilin B Loading Control Antibody	Cyclophilin B C-terminal peptide	PA1-027A
Cyclophilin D Loading Control Antibody	Cyclophilin D C-terminal peptide	PA3-022

To search a complete list of loading control antibodies, go to **thermofisher.com/loadingctrlabs**



Immunofluorescence analysis of cyclophilin B (green) showing staining in the cytoplasm of A431 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5–10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a cyclophilin B polyclonal antibody (Cat. No. PA1-027A) in 3% BSA-PBS at a dilution of 1:500 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a Thermo Scientific™ DyLight™-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with red-fluorescent phalloidin, and nuclei (blue) were stained with Hoechst or DAPI dye. Images were taken at a magnification of 60x.

To find the antibody you need, use our antibody search tool at **thermofisher.com/antibodies**

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