



Alexa Fluor® 680 and Alexa Fluor® 790 secondary Abs for High Sensitivity Western Blots

Alexa Fluor® 680 and Alexa Fluor® 790 enhance signal, especially in Western Blots

Target Species:

Chicken	Donkey	Fluorescein	Goat	Guinea Pig	Armenian Hamster
Horse Radish Peroxidase	Human	Mouse	Rabbit	Rat	Sheep
Biotin	Digoxin	Streptavidin			

See [technical information](#)

Table of Alexa Fluor® 680 and Alexa Fluor® 790 secondary Antibodies, streptavidin, and purified IgG controls.

AffiniPure ANTI-CHICKEN

Donkey Anti-Chicken IgY (IgG) (H+L) ML*
(min X Bov, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)

AffiniPure ANTI-GOAT

Donkey Anti-Goat IgG (H+L) ML* ***
(min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)

IgG Fraction ANTI-GOAT

Mouse Anti-Goat IgG, Light Chain Specific ***
(min X Hrs, Hu, Ms, Rb, Rat Ig)

AffiniPure ANTI-GUINEA PIG

Donkey Anti-Guinea Pig IgG (H+L) ML*
(min X Bov, Ck, Gt, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)

AffiniPure ANTI-ARMENIAN HAMSTER

Goat Anti-Armenian Hamster IgG (H+L)
(min X Bov, Hu, Ms, Rb, Rat Sr Prot) **

AffiniPure ANTI-HUMAN

Donkey Anti-Human IgG (H+L) ML*
(min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Ms, Rb, Rat, Shp Sr Prot)

Goat Anti-Human IgG, Fcγ Fragment Specific
(min X Bov, Hrs, Ms Sr Prot)

Goat Anti-Human IgM, Fc_{5μ} fragment specific
(min X Bov Sr Prot)

AffiniPure ANTI-MOUSE

Donkey Anti-Mouse IgG (H+L) ML*
(min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)

Donkey Anti-Mouse IgG (H+L) ML*
(min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Rat, Shp Sr Prot) **

Goat Anti-Mouse IgG (H+L) ML*
(min X Hu, Bov, Hrs, Rb, Sw Sr Prot)

Goat Anti-Mouse IgG (H+L) ML*
(min X Hu, Bov, Hrs, Rb, Rat Sr Prot) **

Goat Anti-Mouse IgG, Light Chain† Specific for Western blotting after IP (min X Bov, Gt, Hrs, Hu, Rb, Rat, Shp Ig)

Alexa Fluor®680
A=684, E=702

Alexa Fluor®790
A=792, E=803

0.5 mg
703-625-155

0.5 mg
703-655-155

0.5 mg
705-625-147

0.5 mg
705-655-147

0.3 mg
205-622-176

0.3 mg
205-652-176

0.5 mg
706-625-148

0.5 mg
706-655-148

0.3 mg
127-625-160

0.3 mg
127-655-160

0.5 mg
709-625-149

0.5 mg
709-655-149

0.5 mg
109-625-098

0.5 mg
109-655-098

0.5 mg
109-625-129

0.5 mg
109-655-129

0.5 mg
715-625-150

0.5 mg
715-655-150

0.3 mg
715-625-151

0.3 mg
715-655-151

0.5 mg
115-625-146

0.5 mg
115-655-146

0.3 mg
115-625-166

0.3 mg
115-655-166

0.3 mg
115-625-174

0.3 mg
115-655-174

Table of Alexa Fluor® 680 and Alexa Fluor® 790 II Abs (cont.)	Alexa Fluor®680 A=684, E=702	Alexa Fluor®790 A=792, E=803
Goat Anti-Mouse IgG, Fcγ Fragment Specific ML* (min X Hu, Bov, Hrs Sr Prot)	0.5 mg 115-625-071	0.5 mg 115-655-071
Goat Anti-Mouse IgG, Fcγ Subclass 1 Specific ML* (min X Hu, Bov, Rb Sr Prot)	0.3 mg 115-625-205	0.3 mg 115-655-205
Goat Anti-Mouse IgG, Fcγ Subclass 2a Specific ML* (min X Hu, Bov, Rb Sr Prot)	0.3 mg 115-625-206	0.3 mg 115-655-206
Goat Anti-Mouse IgG, Fcγ Subclass 2b Specific ML* (min X Hu, Bov, Rb Sr Prot)	0.3 mg 115-625-207	0.3 mg 115-655-207
Goat Anti-Mouse IgG, Fcγ Subclass 3 Specific ML* (min X Hu, Bov, Rb Sr Prot)	0.3 mg 115-625-209	0.3 mg 115-655-209
Goat Anti-Mouse IgM, μ Chain Specific ML* (min X Hu, Bov, Hrs Sr Prot)	0.5 mg 115-625-075	0.5 mg 115-655-075
AffiniPure ANTI-RABBIT		
Donkey Anti-Rabbit IgG (H+L) ML* (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rat, Shp Sr Prot)	0.5 mg 711-625-152	0.5 mg 711-655-152
Goat Anti-Rabbit IgG (H+L) ML* (min X Hu, Ms, Rat Sr Prot)	0.5 mg 111-625-144	0.5 mg 111-655-144
IgG Fraction ANTI-RABBIT		
Mouse Anti-Rabbit IgG, Light Chain Specific (min X Bov, Gt, Ar Hms, Hrs, Hu, Ms, Rat, Shp Ig)	0.3 mg 211-622-171	0.3 mg 211-652-171
AffiniPure ANTI-RAT		
Donkey Anti-Rat IgG (H+L) ML* (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)	0.5 mg 712-625-150	0.5 mg 712-655-150
Donkey Anti-Rat IgG (H+L) ML* (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Shp Sr Prot) **	0.3 mg 712-625-153	0.3 mg 712-655-153
Goat Anti-Rat IgG (H+L) ML* (min X Hu, Bov, Hrs, Rb Sr Prot)	0.5 mg 112-625-143	0.5 mg 112-655-143
Goat Anti-Rat IgG (H+L) ML* (min X Hu, Bov, Hrs, Ms, Rb Sr Prot) **	0.3 mg 112-625-167	0.3 mg 112-655-167
Goat Anti-Rat IgG, Light Chain† Specific (min X Bov, Gt, Hrs, Hu, Ms, Rb, Shp Ig)	0.3 mg 112-625-175	0.3 mg 112-655-175
Goat Anti-Rat IgG, Fcγ Fragment Specific ML* (min X Hu, Bov, Hrs Sr Prot)	0.5 mg 112-625-071	0.5 mg 112-655-071
Goat Anti-Rat IgM, μ Chain Specific ML* (min X Hu, Bov, Hrs Sr Prot)	0.5 mg 112-625-075	0.5 mg 112-655-075
AffiniPure ANTI-SHEEP		
Donkey Anti-Sheep IgG (H+L) ML* *** (min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)	0.5 mg 713-625-147	0.5 mg 713-655-147
IgG Fraction ANTI-SHEEP		
Mouse Anti-Sheep IgG, Light Chain Specific *** (min X Bov, Hrs, Hu, Ms, Rb, Rat Ig)	0.3 mg 213-622-177	0.3 mg 213-652-177

Table of Alexa Fluor® 680 and Alexa Fluor® 790 anti tags, streptavidin, and purified IgG controls.	Alexa Fluor®680 A=684, E=702	Alexa Fluor®790 A=792, E=803
IgG Fraction ANTI-FLUORESCHEIN		
Mouse Anti-Fluorescein (FITC)	0.3 mg 200-622-037	0.3 mg 200-652-037
IgG Fraction ANTI-DIGOXIN		
Mouse Anti-Digoxin	0.3 mg 200-622-156	0.3 mg 200-652-156
IgG Fraction ANTI-BIOTIN		
Mouse Anti-Biotin	0.3 mg 200-622-211	0.3 mg 200-652-211

AffiniPure ANTI-HORSERADISH PEROXIDASE

Goat Anti-Horseradish Peroxidase

ChromPure Proteins

Streptavidin

ChromPure Donkey IgG, whole molecule

ChromPure Goat IgG, whole molecule

ChromPure Mouse IgG, whole molecule

0.5 mg
123-625-021

0.5 mg
123-655-021

0.5 mg
016-620-084

0.5 mg
016-650-084

0.5 mg
017-620-003

0.5 mg
017-650-003
\$53.00

0.5 mg
005-620-003

0.5 mg
005-650-003

0.5 mg
015-620-003

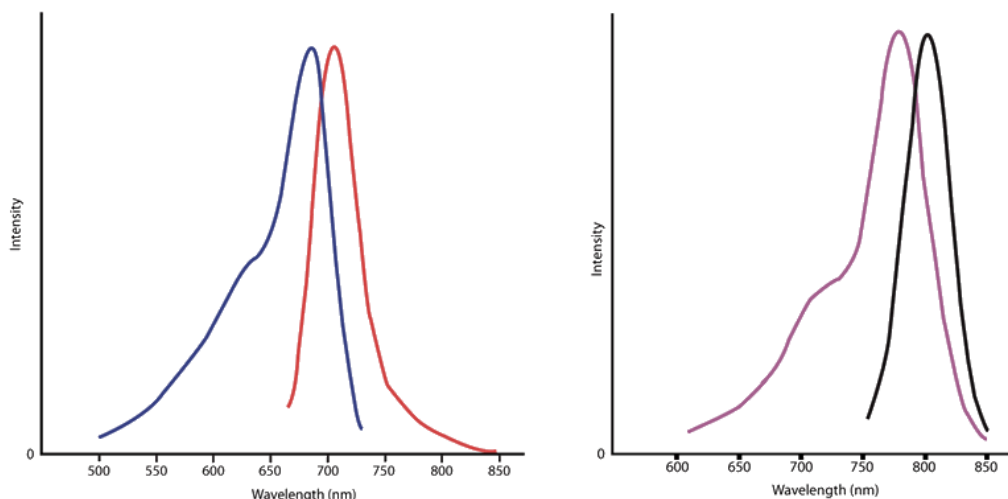
0.5 mg
015-650-003

‡: CAUTION: This antibody reacts with Kappa chains. It is not suitable for Monoclonal Abs with Lambda chain.

Technical information - Far-red and Infrared Detection on Western blots

Alexa Fluor® 680 is a far-red-emitting dye with peak excitation at 684nm and peak emission at 702nm. Alexa Fluor® 790 is an infrared-emitting dye with peak excitation at 783nm and peak emission at 803nm (Figure 1). Antibodies conjugated with far-red and Infrared-emitting dyes are more sensitive than those with dyes emitting visible light due to low fluorescence quenching of the conjugates, high extinction coefficients of the dyes, and low background autofluorescence. The increased brightness allows for a wider range of immunofluorescence detection and imaging modalities. Far-red and Infrared dye conjugates can be used for higher sensitivity Western blots, quantitative Western blots, in-gel Western blots, microWestern arrays, in-cell Western arrays, on-cell Western arrays, tissue section imaging, small animal whole body imaging, and other techniques that require the brightest dyes.

Figure 1. Excitation and emission spectra of Alexa Fluor® 680 (left)- and Alexa Fluor® 790 (right)-conjugated secondary antibodies. All peaks were normalized. Spectra were obtained with a M-Series spectrofluorometer from Photon Technology International, Inc. and an Ultraspec 1100 *pro* from Amersham Biosciences.



Here is the largest selection of Alexa Fluor® 680 and Alexa Fluor® 790 dyes conjugated with signal-enhancing primary antibodies, affinity-purified secondary antibodies, streptavidin, and purified IgG

controls for single- and double-labeling Western blots (Figure 2) and other techniques requiring high sensitivity. The secondary antibodies are adsorbed to eliminate cross-reactions with others species and with other immunoglobulin classes for double labeling.



Figure 2. Double immunofluorescence staining on a Western blot using Alexa Fluor® 680 far-red dye and Alexa Fluor® 790 infrared dye. Mouse IgG and goat IgG were reduced and denatured with β -mercaptoethanol and SDS. The heavy and light chains were separated by electrophoresis in SDS-PAGE, transferred to nitrocellulose, and double labeled with a 1:100,000 dilution of Alexa Fluor® 790-goat anti-mouse IgG, Fc γ Subclass 1 specific (min X Hu, Bov, Rb Sr Prot, 115-655-205)(green) to detect heavy chains and a 1:100,000 dilution of Alex Fluor® 680-goat anti-mouse IgG, light chain specific (min X Bov, Gt, Hrs, Hu, Rb, Rat, Shp Ig, 115-625-174)(red) to detect light chains. Fluorescence was imaged in a LiCor Odyssey imager. Goat IgG was used as a background control. Note the faint bands of goat IgG heavy and light chains attesting to the extreme brightness of the dyes even at a dilution of 1:100,000.

Both dyes can be used with LiCor Odyssey imaging systems and all of the high-sensitivity techniques listed above. We recommend that the antibodies be diluted at least 1:50,000 to 1:200,000 due to the high sensitivity of the conjugates.

Related products/documents

Accessory reagents for ImmunoFluorescence detections by microscopy (IF)

Antifading Agents

Enzyme labeled (Strept)Avidin products

Enzyme/crosslinkers and enzyme labeling kits for antibodies and other biomolecules

Other labeled secondary antibodies and primary antibodies

Buffers and saturating agents

see [Products HighLights \(overview\)](#)

see [BioSciences Innovations catalog](#)

search at <http://www.interchim.com/interchim/customers/default.cfm>

Search secondary antibody conjugated with [Ab2Search engine](#)

Information inquire

Reply by Fax : +33 (0) 4 70 03 82 60 or email at interbiotech@interchim.com

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