

# Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 568

Product Details	
Size	1 mg
Species Reactivity	Mouse
Host/Isotope	Donkey / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 568
Immunogen	Gamma Immunoglobulin
Form	Liquid
Concentration	2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage Conditions	4° C, store in dark
RRID	AB_2534013

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	2 µg/mL	3 Publications
Immunohistochemistry (IHC)	✓	1-10 µg/mL	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1:300	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-		2 Publications
Miscellaneous PubMed (MISC)	-		21 Publications
Immunofluorescence (IF)	✓	2 µg/mL	

## Product Specific Information

These donkey anti-mouse IgG whole secondary antibodies have been affinity-purified and show minimum cross-reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, rat, and sheep serum proteins. Cross-adsorption or pre-adsorption is a purification step to increase specificity of the antibody resulting in higher sensitivity and less background staining. The secondary antibody solution is passed through a column matrix containing immobilized serum proteins from potentially cross-reactive species. Only the nonspecific-binding secondary antibodies are captured in the column, and the highly specific secondaries flow through. The benefits of this extra step are apparent in multiplexing/multicolor-staining experiments (e.g., flow cytometry) where there is potential cross-reactivity with other primary antibodies or in tissue/cell fluorescent staining experiments where there may be the presence of endogenous immunoglobulins.

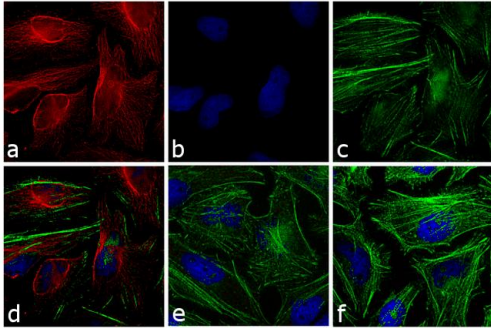
Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 568 dye is a bright, orange/red-fluorescent dye with excitation ideally suited to the 568 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 568 dye is pH-insensitive over a wide molar range. Probes with high fluorescence quantum yield and high

photostability allow detection of low-abundance biological structures with great sensitivity. Alexa Fluor 568 dye molecules can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection. The degree of labeling for each conjugate is typically 2-8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot.

Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore-labeled antibodies a final concentration of 1-10  $\mu\text{g}/\text{mL}$  should be satisfactory for most immunohistochemistry and flow cytometry applications.

## Product Images For Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 568

**Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody (A10037) in IF**  
Immunofluorescence analysis of Donkey anti-Mouse IgG Secondary Antibody, Alexa Fluor 568 conjugate was performed using HeLa cells stained with alpha Tubulin (23610501) Mouse Monoclonal Primary Antibody (Product # A11126). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 1% BSA for 1 hour and labeled with 2  $\mu\text{g}/\text{mL}$  mouse primary antibody for 3 hours at room temperature. Donkey anti-Mouse IgG Secondary Antibody, Alexa Fluor 568 conjugate (Product # A10037) was used at a concentration of 2  $\mu\text{g}/\text{mL}$  in phosphate buffered saline containing 0.2 % BSA for 45 minutes at room temperature, for detection of alpha Tubulin in the cytoplasm (Panel a: red). Nuclei (Panel b: blue) were stained with DAPI in SlowFade® Gold Antifade Mountant (Product # S36938). F-actin was stained with Alexa Fluor® 488 Phalloidin (Product # A12379, 1:300) (Panel c: green). Panel d represents the composite image. No nonspecific staining was observed with the secondary antibody alone (panel f), or with an isotype control (panel e). The images were captured at 60X magnification.



## 32 References

### Immunocytochemistry (3)

The Journal of cell biology

#### Smurf1 inhibits integrin activation by controlling Kindlin-2 ubiquitination and degradation.

"A10037 was used in immunocytochemistry to establish that Smurf1 controls Kindlin-2 protein levels in cells and hinders integrin activation"

Authors: Wei X,Wang X,Zhan J,Chen Y,Fang W,Zhang L,Zhang H

**Species**  
Not Applicable

**Dilution**  
1:400

**Year**  
2017

Experimental neurology

#### -Synuclein pre-formed fibrils impair tight junction protein expression without affecting cerebral endothelial cell function.

"A10037 was used in immunocytochemistry to test if alpha-synuclein preformed fibrils alter endothelial function"

Authors: Kuan WL,Bennett N,He X,Skepper JN,Martynyuk N,Wijeyekoon R,Moghe PV,Williams-Gray CH,Barker RA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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### Immunohistochemistry (5)

eLife

#### Transcription factor Emx2 controls stereociliary bundle orientation of sensory hair cells.

"A10037 was used in immunohistochemistry to elucidate that Emx2 expression is required to reverse hair bundles from their 'default' polarity in the macula and neuromast"

Authors: Jiang T,Kindt K,Wu DK

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

Molecular metabolism

#### Cholinergic neurons in the dorsomedial hypothalamus regulate food intake.

"A10037 was used in immunohistochemistry to determine the effects of dorsomedial hypothalamus cholinergic neurons in regulating food intake"

Authors: Jeong JH, Lee DK, Jo YH

**Species**  
Not Applicable

**Dilution**  
1:500

**Year**  
2017

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### More applications with references on thermofisher.com

IHC (P) (1)

IHC (F) (2)

MISC (21)

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