

# Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 633

| Product Details         |  |
|-------------------------|--|
| Size                    | 1 mg                                       |
| Species Reactivity      | Human                                      |
| Host/Isotype            | Goat / IgG                                 |
| Class                   | Polyclonal                                 |
| Type                    | Secondary Antibody                         |
| Conjugate               | Alexa Fluor™ 633                           |
| Excitation/Emission Max | 631/650 nm                                 |
| Immunogen               | Gamma Immunoglobins Heavy and Light chains |
| Form                    | Liquid                                     |
| Concentration           | 2 mg/mL                                    |
| Purification            | purified                                   |
| Storage buffer          | PBS, pH 7.5                                |
| Contains                | 5mM sodium azide                           |
| Storage conditions      | 4°C, store in dark                         |
| RRID                    | AB_2535747                                 |

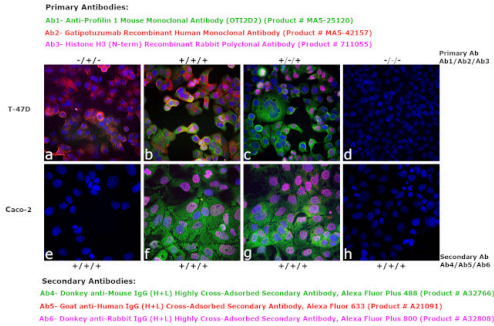
| Applications                 | Tested Dilution | Publications  |
|------------------------------|-----------------|---------------|
| Western Blot (WB)            | 1:2,000         | 0 Publication |
| Immunohistochemistry (IHC)   | 1-10 µg/mL      | -             |
| Immunocytochemistry (ICC/IF) | 1-10 µg/mL      | 0 Publication |
| Flow Cytometry (Flow)        | -               | 0 Publication |
| Miscellaneous PubMed (Misc)  | -               | 0 Publication |

## Product Specific Information

Product will be shipped at Room Temperature.

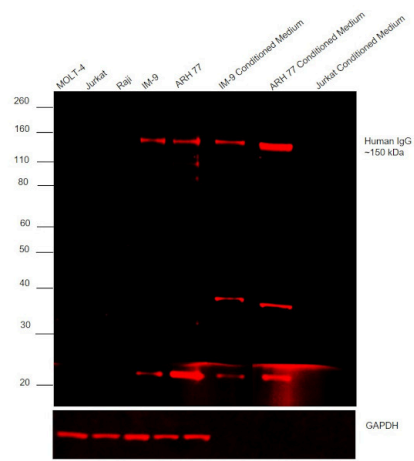
Human IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21091)

Immunofluorescence analysis of Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 633 (Product # A-21091) was performed using anti-Human MUC1 antibody (Product # MA5- 42157) with T-47D (positive) and Caco-2 (negative) cells. The cells were fixed with 4% Paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 2% BSA, then incubated with following primary antibodies at 1:100 dilution at 4 degree celsius overnight; Panel a & e- Ab1 (MUC1), Panel b & f- Ab1 (PFN1), Ab2 (MUC1), Ab3 (H3) and Panel c & g-: Ab1 (PFN1), Ab3 (H3). The cells were then incubated with secondary antibodies- Ab4 (Product # A32766), Ab5 (Product # A-21091) and Ab6 (Product # A32808) in 0.1% BSA at room temperature for 45 minutes. The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al./Methods 115 (2017) 28–41). Panel a shows plasma membrane localization of MUC1 in T-47D and its absence in Caco-2 (panel e), Panel b shows plasma membrane, cytoplasmic and nuclear localization of MUC1, PFN1 and H3 respectively in the channels corresponding to the wavelength of their secondary antibody. Panel c shows no signal in red channel proving the specificity of Ab4 to human primary antibody and not to mouse or rabbit primary antibody. Panel f & g show Caco-2 with PFN1 and H3 staining. Panel d & h are control cells with no primary antibody. {RE}



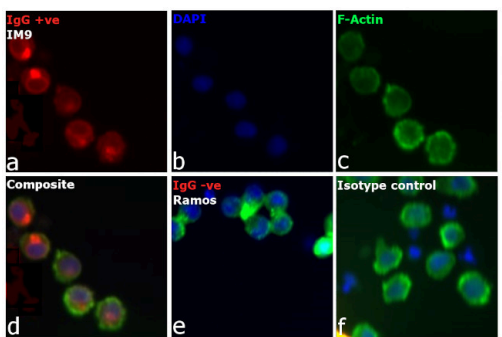
Human IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21091)

Antibody specificity was demonstrated by detection of differential basal expression of IgG across cell lines owing to their inherent genetic constitution. Relative expression of Human IgG was observed in IM-9, ARH-77 and IM-9, ARH-77 conditioned medium (CM) but not in Raji, MOLT-4, Jurkat and Jurkat CM using Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 633 (Product # A-21091) in Western Blot. IM-9 and ARH-77 express and secrete IgG whereas Raji is known to express IgM. MOLT-4 and Jurkat (T-cell lines) do not express immunoglobulins. (DOI:10.1002/eji.1830100305;10.3791/3573;10.1016/0022-1759(94)00286-6;PMID: 566614). {RE}



Human IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21091) in ICC/IF

Immunofluorescence analysis of Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 633 was performed using log phase IM9 cells (IgG producing B-cell line). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes and blocked with 2% BSA for 1 hour at room temperature. he cells were labeled with Goat anti-Human IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 633 (Product # A-21091) at 1:250 dilution in 0.1% BSA, incubated at 4 degree celsius overnight (Panel a: red). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin (Panel c: green) was stained with Alexa Fluor™ 488 Phalloidin (Product # A12379, 1:300 dilution). Panel d represents the merged image showing cytoplasmic (plasma membrane and golgi-body like) localization. Panel e represents Ramos (IgG non-producing B-cell line) which is a negative model for IgG expression. Panel f represents control cells with isotype control antibody to assess background. The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al. /Methods 115 (2017) 28–41). ZR).



- Single-domain antibodies directed against hemagglutinin and neuraminidase protect against influenza B viruses. *Nat Commun* (2025)
- Ultrapotent SARS coronavirus-neutralizing single-domain antibodies that clamp the spike at its base. *Nat Commun* (2025)
- Maternal genetic variants in kinesin motor domains prematurely increase egg aneuploidy. *Proc Natl Acad Sci U S A* (2024)
- Genetic interaction mapping of Aurora protein kinases in mouse oocytes. *Front Cell Dev Biol* (2024)
- ELP1, the Gene Mutated in Familial Dysautonomia, Is Required for Normal Enteric Nervous System Development and Maintenance and for Gut Epithelium Homeostasis. *J Neurosci* (2024)

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