

# Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor™ 555

Product Details	
Size	1 mg
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Expression system	Expi293
Class	Recombinant Superclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 555
Excitation/Emission Max	553/568 nm
Immunogen	Recombinant full-length protein
Form	Liquid
Concentration	1 mg/mL
Purification	Gravity column chromatography
Storage buffer	PBS
Contains	5mM sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2536164

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:10,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:2,000	-
Immunocytochemistry (ICC/IF)	1:500-1:2,000	0 Publication
Miscellaneous PubMed (Misc)	-	0 Publication

## Product Specific Information

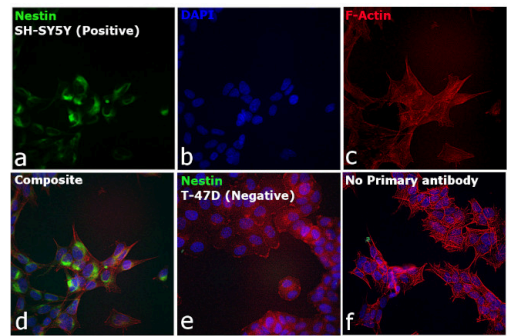
The sensitivity and specificity of each lot is confirmed using ELISA.

Minimal cross-reactivity with rabbit, rat, human, bovine, guinea pig and donkey IgG is observed.

Recombinant antibodies are produced using specific genes that code for the desired antibodies. These genes are cloned into an expression vector and expressed in vitro. The advantages of recombinant antibodies include: better specificity, animal origin-free formulation, and more lot-to-lot consistency.

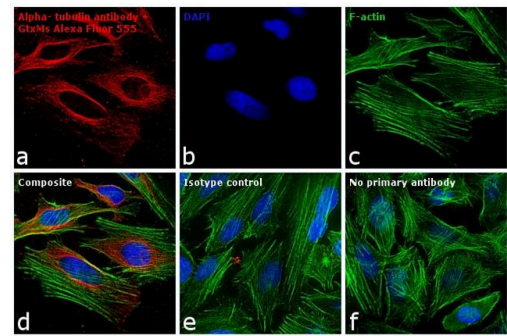
Mouse IgG (H+L) Secondary Antibody (A28180) in ICC/IF

Immunofluorescence analysis of Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ 555 (Product # A28180) was performed using SH-SY5Y (positive model) and T-47D (negative model) cells stained with Nestin Monoclonal Antibody (10C2), eBioscience™ (Product # 14-9843-80). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 2% BSA for 1 hour and labeled with 2 µg/mL primary antibody for 3 hours at room temperature. Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ 555 (Product # A28180, 1:2000) in 0.1% BSA in PBS for 45 minutes at room temperature, was used for detection of Nestin in the cytoskeleton (Panel a: Green). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin was stained with Alexa Fluor® 647 Phalloidin (Product # A22287, 1:1000) (Panel c: red). Panel d represents the composite image. The specificity of the secondary antibody was proved by the absence of signal in T-47D (negative model for Nestin) due to no primary antibody binding (Panel e). Non-specific staining was not observed with secondary antibody alone (panel f). 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).



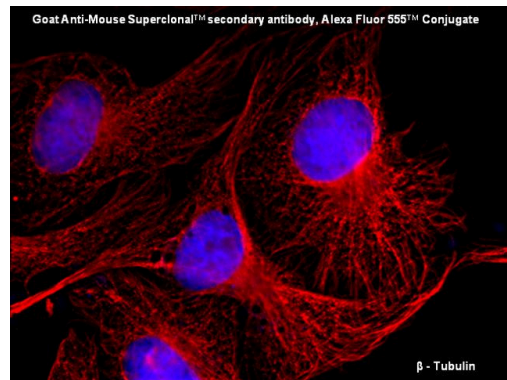
Mouse IgG (H+L) Secondary Antibody (A28180) in ICC/IF

Immunofluorescence analysis of Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 555 conjugate was performed using HeLa cells stained with alpha Tubulin (236-10501) Mouse Monoclonal 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 µg/mL primary antibody for 3 hours at room temperature. Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 555 (Product # A-28180) was used at a concentration of 2 µg/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.



Mouse IgG (H+L) Secondary Antibody (A28180) in ICC/IF

Endogenous Tubulin (red) was labeled with Mouse anti-Tubulin primary antibody (Product # 32-2500) (1 µg/mL) in U20S human osteocarcinoma cells and visualized using Goat anti-mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 555 conjugate (Product # A28180) (0.4 µg/mL, 1:2500). Nuclei (blue) were stained with SlowFade® Gold Antifade Mountant using DAPI (Product # S36938) (1:50).



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Post-testicular spermatozoa of a marine teleost can conduct de novo cytoplasmic and mitochondrial translation. *iScience* (2025)

Discovery of non-retinoid compounds that suppress the pathogenic effects of misfolded rhodopsin in a mouse model of retinitis pigmentosa. *PLoS Biol* (2025)

Mitochondrial mechanotransduction through MIEF1 coordinates the nuclear response to forces. *Nat Cell Biol* (2024)

An organotypic human melanoma-in-skin model as an in vitro tool for testing V9V2-T cell-based immunotherapy. *Immunooncol Technol* (2024)

p75NTR Modulation Reduces Oxidative Stress and the Expression of Pro-Inflammatory Mediators in a Cell Model of Rett Syndrome. *Biomedicines* (2024)

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