

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

Product Details	
Size	1 mg
Species Reactivity	Rabbit
Host/Isotope	Goat / IgG
Class	Recombinant Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 555
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_2536100

Applications	Tested	Dilution	Published
Immunohistochemistry (Frozen) (IHC (F))	-		1 Publication
Immunocytochemistry (ICC)	✓	0.5 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1:1000	3 Publications
Immunofluorescence (IF)	✓	0.5 µg/mL	

Product Specific Information

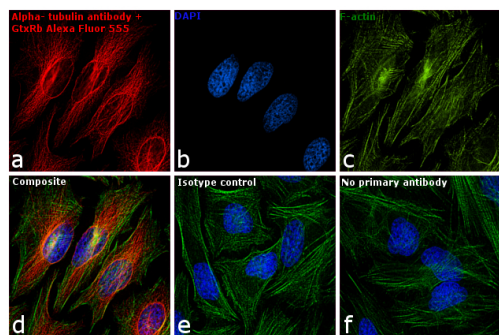
The sensitivity and specificity of each lot is confirmed using ELISA.

Minimal cross-reactivity with mouse, 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.

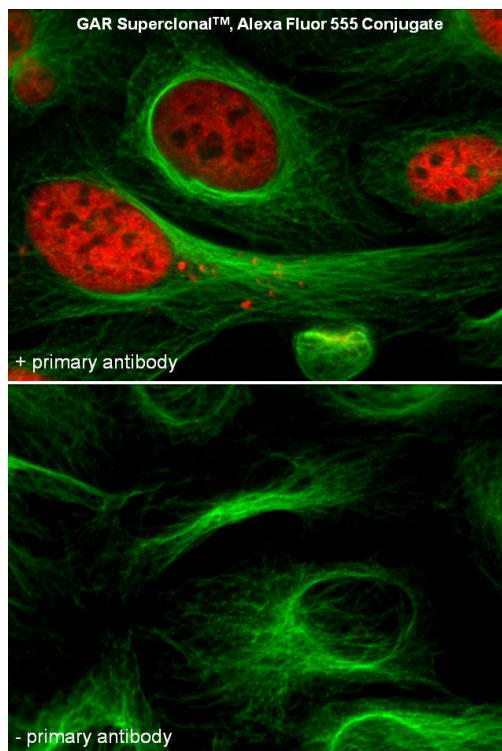
Rabbit IgG (H+L) Secondary Antibody (A27039) in IF

Immunofluorescence analysis of Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor 555 (Product # A27039) was performed using HeLa cells stained with alpha Tubulin Rabbit Polyclonal Antibody (Product # PA5-16891). 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 of rabbit primary antibody for 3 hours at room temperature. Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor 555 (Product # A27039) was used at concentration of 0.5 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.



Rabbit IgG (H+L) Secondary Antibody (A27039) in IF

Endogenous Histone H3 (AcK9) (red) was labeled with Rabbit anti-Histone H3 (AcK9) primary antibody (Product # 710293) (1 µg/mL) (top panel) to assess signal or no primary antibody to assess background (bottom panel) in U20S human osteocarcinoma cells and visualized using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 555 conjugate (Product # A27039) (0.4 µg/mL, 1:2500). To demonstrate multiplexing Tubulin (green) was labeled with anti-Tubulin (Product # 32-2500) mouse primary antibody and visualized with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) (1 µg/mL).



5 References

Immunohistochemistry (Frozen) (1)

Molecular vision

Reduced phosphoCREB in Müller glia during retinal degeneration in *rd10* mice.

"A27039 was used in immunohistochemistry - frozen section to evaluate the mechanisms of retinal degeneration"

Authors: Dong E, Bachleda A, Xiong Y, Osawa S, Weiss ER

Species
Not Applicable

Dilution
Not Cited

Year
2018

Immunocytochemistry (1)

eLife

Inhibitor of ppGalNAc-T3-mediated O-glycosylation blocks cancer cell invasiveness and lowers FGF23 levels.

"A27039 was used in immunocytochemistry to attempt to identify a compound targeting the polypeptide N-acetylgalactosaminyltransferase 3 isozyme"

Authors: Song L, Linstedt AD

Species
Not Applicable

Dilution
Not Cited

Year
2017

Immunohistochemistry (3)

Nature communications

Zyxin regulates endothelial von Willebrand factor secretion by reorganizing actin filaments around exocytic granules.

"A27039 was used in immunohistochemistry to evaluate the mechanisms of Weibel-Palade body exocytosis upon vascular injury"

Authors: Han X, Li P, Yang Z, Huang X, Wei G, Sun Y, Kang X, Hu X, Deng Q, Chen L, He A, Huo Y, Li D, Betzig E, Luo J

Species
Not Applicable

Dilution
1:1000

Year
2017

The Journal of cell biology

Regulation of morphine-induced synaptic alterations: Role of oxidative stress, ER stress, and autophagy.

"A27039 was used in immunocytochemistry and immunohistochemistry to assess the contribution of platelet-derived growth factor in morphine-mediated synaptic alterations"

Authors: Cai Y, Yang L, Hu G, Chen X, Niu F, Yuan L, Liu H, Xiong H, Arikath J, Buch S

Species
Not Applicable

Dilution
1:500

Year
2016

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