Goat anti-Rabbit IgG (Heavy chain) Superclonal™ Secondary Antibody, Alexa Fluor™ 488

Product Details	
Size	1 mg
Species Reactivity	Rabbit
Host/Isotype	Goat / IgG
Expression system	Expi293
Class	Recombinant Superclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 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_2536097

Applications	**Tested Dilution**	**Publications**
Western Blot (WB)	1:2,000-1:5,000	0 Publication
Immunohistochemistry (IHC)	-	0 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	0 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:2,000	0 Publication
Immunohistochemistry - Free Floating (IHC (Free))	-	0 Publication
Immunocytochemistry (ICC/IF)	1:250-1:2,000	0 Publication
Flow Cytometry (Flow)	1-5 µg/mL	-
Miscellaneous PubMed (Misc)	-	0 Publication

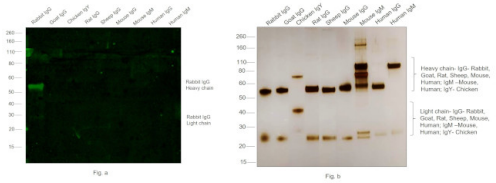
Product Specific Information

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

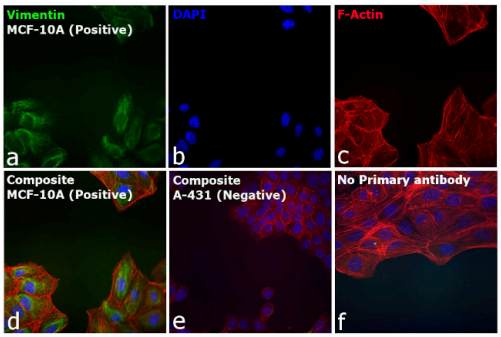
Minimal cross-reactivity with mouse, rat, human, bovine, guinea pig and donkey IgG is observed.

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.

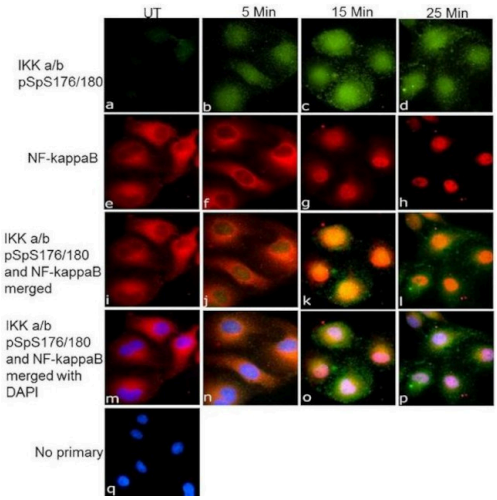
Product Images For Goat anti-Rabbit IgG (Heavy chain) Superclonal™ Secondary Antibody, Alexa Fluor™ 488



Rabbit IgG (Heavy chain) Secondary Antibody (A27034)
Specificity of secondary antibody was demonstrated by specific detection of the target immunoglobulin. Antibody specificity was demonstrated by specific detection of Rabbit IgG. Bands at ~55 and 25 kDa corresponding to Rabbit IgG Heavy and Light Chain were observed in Rabbit IgG but not in other species using Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ 488 (Product # A27034) in Western Blot. {RE}



Rabbit IgG (Heavy chain) Secondary Antibody (A27034) in ICC/IF
Immunofluorescence analysis of Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ 488 (Product # A27034) was performed using MCF 10A (positive model) and A-431 (negative model) in cells stained with Vimentin Polyclonal antibody (Product # PA5-27231). 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 1:500 dilution of primary antibody overnight at 4C. Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor™ 488 (Product # A27034, 1:2,000 dilution) in 0.1% BSA in PBS for 1 hour at room temperature, was used for detection of Vimentin in the cytoskeleton (Panel a: Green). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin was stained with Rhodamine Phalloidin (Product # R415, 1:500) (Panel c: Red). Panel d represents the composite image. The specificity of the secondary antibody was proved by the absence of signal in A-431 (negative model for Vimentin) 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).



Rabbit IgG (Heavy chain) Secondary Antibody (A27034) in ICC/IF
Time course showing induction of TNF-a signaling cascade upon treatment: Cellular localization of proteins in the NF-KB signaling pathway was detected upon treatment of HeLa cells with TNF-a (50 ng/mL) for 5, 10 and 25 min, respectively. Fixed and permeabilized cells were stained with Anti-IKK alpha/beta (pSpS176/180) Recombinant Rabbit Monoclonal Antibody (Product # 701643, 1 µg/mL) or Anti-NF-kB Mouse Monoclonal Antibody (Product # 33-9900, 1 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Recombinant Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 0.4 µg/mL, 1:2,500) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 647 conjugate (Product # A28181, 0.4 µg/mL, 1:2,500). Images show staining of phospho-IKK alpha/beta and NF-KB (panel a, e, i, m) in untreated cells. No significant basal levels of phosphorylated IKK alpha /beta (panel a; green) were detected. Treatment with TNF alpha led to an increase in the levels of phospho-IKK alpha/beta (panel b - d ; green) in the cytosol and the nucleus, and a corresponding translocation of NF-kB to the nucleus (panel f - h; red). The composite images are shown in panels i - l; green, red. Nuclei (blue) were stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938, 1:50) and panel m - p; green, red represent the specific localization of the proteins with reference to DAPI. No background staining was observed in control cells with no pr

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315 References

Neural progenitor cell-derived exosomes in ischemia/reperfusion injury in cardiomyoblasts. BMC Neurosci (2025)

Infiltrating lipid-rich macrophage subpopulations identified as a regulator of increasing prostate size in human benign prostatic hyperplasia. Front Immunol (2025)

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