

# Goat anti-Rat IgG (H+L) Secondary Antibody, Rhodamine

## Product Details

Size	2 mg
Species Reactivity	Rat
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Rhodamine
Excitation/Emission Max	573/591 nm
Form	Lyophilized
Concentration	1.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.6, with 15mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	4° C
RRID	AB_228357

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	1:50 - 1:200	0 Publication
Immunocytochemistry (ICC/IF)	4 µg/mL	0 Publication
Flow Cytometry (Flow)	1:50 - 1:200	-
Immunoprecipitation (IP)	1:50 - 1:200	-

## Product Specific Information

Concentration may vary slightly from lot-to-lot, see lot-specific datasheet for exact concentration.

Product # 31680 has been successfully used in Western blot, IF, ICC, IHC, IP and FACS applications.

Product # 31680 reacts with the heavy chains of rat IgG and with the light chains common to most rat immunoglobulins, but does not react against non-immunoglobulin serum proteins. However, antibodies may cross-react with immunoglobulins from other species.

Store product protected from light at 4°C until opened. To extend the shelf-life of this product, add an equal volume of glycerol to make a final concentration of approximately 50% glycerol and store at -20°C. Rhodamine Amax= 550 nm; Emax= 570 nm. Fluorophore/Protein Absorbance Ratio: A550/A280 = 0.47 (lot-dependent).

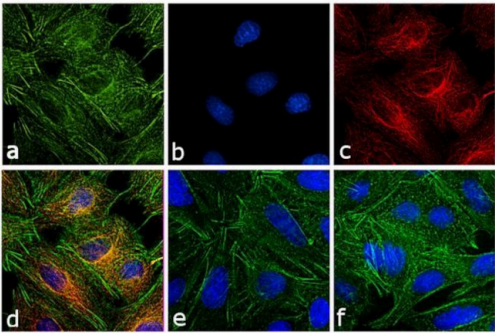
Reconstitute with 1.5 mL of distilled water (1.5 mg/mL after restoration).

Country of Origin: USA

Product Images For Goat anti-Rat IgG (H+L) Secondary Antibody, Rhodamine

Rat IgG (H+L) Secondary Antibody (31680) in ICC/IF

Immunofluorescence analysis of Goat anti-Rat IgG (H+L) Secondary Antibody, Rhodamine conjugate was performed using A549 cells stained with alpha Tubulin (YL1/2) Rat Monoclonal Antibody (Product # MA1-80017). 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 Rat primary antibody for 3 hours at room temperature. Goat anti-Rat IgG (H+L) Secondary Antibody, Rhodamine conjugate (Product # 31680) was used at a concentration of 4 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.



8 References

PGC-1 overexpression increases transcription factor EB nuclear localization and lysosome abundance in dystrophin-deficient skeletal muscle. *Physiol Rep* (2020)

Swe1 and Mih1 regulate mitotic spindle dynamics in budding yeast via Bik1. *J Cell Sci* (2018)

Uterine and placental distribution of selected extracellular matrix (ECM) components in the dog. *Reproduction* (2018)

Heat stress causes dysfunctional autophagy in oxidative skeletal muscle. *Physiol Rep* (2017)

Polymer-DNA Nanoparticle-Induced CXCR4 Overexpression Improves Stem Cell Engraftment and Tissue Regeneration in a Mouse Hindlimb Ischemia Model. *Theranostics* (2016)

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