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.

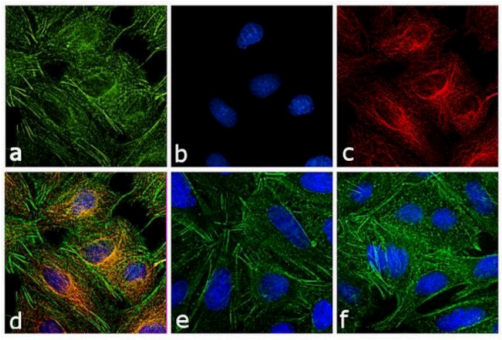
Product # 31680 reacts with the heavy chains of rat IgG and with the light chains common to most rat immunoglobulins, but does not react against non-immunoglobulin serum proteins. However, antibodies may cross-react with immunoglobulins from other species.

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)