Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP

Product Details	
Size	2 mL
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	HRP
Form	Lyophilized
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.6, with 15mg/mL BSA, 50mM sucrose
Contains	no preservative
Storage conditions	4° C
RRID	AB_228307

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:200,000	0 Publication
Immunohistochemistry (IHC)	-	0 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	0 Publication
Immunocytochemistry (ICC/IF)	-	0 Publication
ELISA (ELISA)	1:10,000-1:25,000	0 Publication
Immunoprecipitation (IP)	1:500-1:5,000	0 Publication
Miscellaneous PubMed (Misc)	-	0 Publication

Product Specific Information

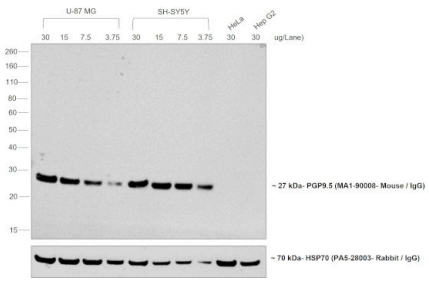
Product # 31430 has been successfully used in Western blot, IHC and IP applications.

Product # 31430 reacts with the heavy chains of mouse igg and with the light chains common to most mouse immunoglobulins, but does not react against non-immunoglobulin serum proteins. However, this antibody may cross-react with immunoglobulins from other species.

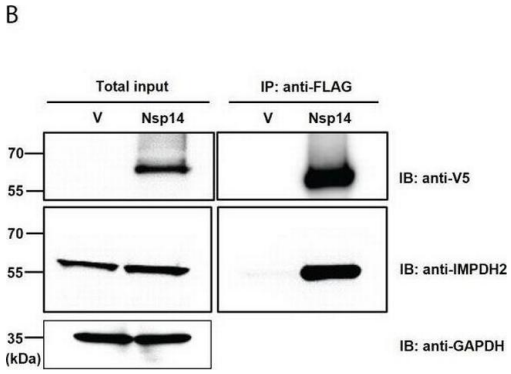
Store product at 4°C until opened. To extend the shelf-life of this product, add an equal volume of glycerol to make a final concentration of approximately 50% glycerol and store at -20°C.

Reconstitute with 2.0 mL of distilled water (0.8 mg/mL after restoration).

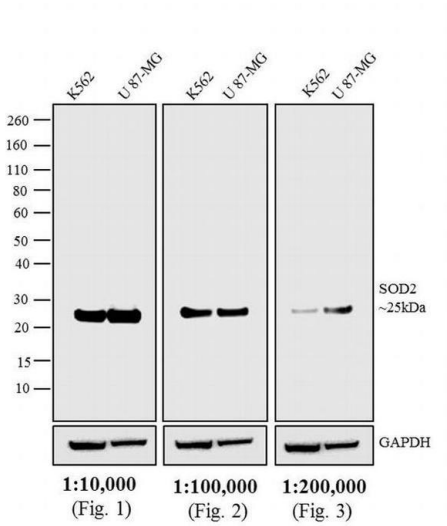
Product Images For Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP



Mouse IgG (H+L) Secondary Antibody (31430) in WB
Chemiluminiscent western blot was performed using Goat anti-Mouse IgG (Heavy Chain) Secondary Antibody, HRP (Product # 31430). Whole cell extracts of U-87 MG (Lane 1, 2, 3, 4), SH-SY5Y (Lane 5, 6, 7, 8), HeLa (Lane 9) and Hep G2 (Lane 10) were electrophoresed usingNuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP03221BOX). Resolved proteins were transferred onto anitrocellulose membrane (Product # IB23001) byiBlot® 2 Dry BlottingSystem (Product # IB21001). The blot was probed with PGP9.5 Monoclonal Antibody (13C4) (Product # MA1-90008), and HSP70 Polyclonal Antibody (Product # PA5-28003). Secondary antibodies (Product # 31430, 1:30,000), and (Product # A27036, 1:20,000) were used for detection of PGP9.5, and HSP70 respectively. Chemiluminiscent detection was performed usingiBright™FL1500 (Product # A44115). The anti-mouse secondary antibody (Product # 31430) specifically detects the mouse primary antibody.



Mouse IgG (H+L) Secondary Antibody (31430) in WB
IMPDH2 associates with Nsp14 and is required for IL-8 upregulation by Nsp14. (A) HEK293T cells were transiently transfected with the vector expressing FLAG-Nsp14 or V5-IMPDH2, alone or together. Cell lysates were prepared and subjected to protein co-immunoprecipitation (co-IP) assays using anti-FLAG or control IgG antibody. Precipitated protein samples were analyzed by protein immunoblotting using anti-V5 and anti-FLAG antibodies. (B) HEK293T cells were transiently transfected with the empty vector (V) or FLAG-V5-Nsp14 vector. Cell lysates were prepared and subjected to protein co-IP assays using an anti-FLAG antibody. Precipitated protein samples were analyzed by protein immunoblotting using anti-V5 and anti-IMPDH2 antibodies. (C) HEK293T cells were transiently transfected with IMPDH2 or non-targeting (NT) siRNAs. The mRNA level of IMPDH2 was measured and normalized to siNT. (D) HEK293T cells transfected with IMPDH2 or NT siRNAs were further transfected with V5-FLAG-Nsp14 or empty vector. These cells were untreated or treated with TNF-. Total RNAs were extracted. IL-8 mRNA was analyzed and normalized to the siNT and empty vector-transfected group. Results were calculated from 3 independent experiments and presented as mean +/- standard error of the mean (SEM). (*p<0.05; ** p<0.01; **** p<0.0001; by unpaired Student's t-test). Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/36177032), licensed under a CC BY license.



Mouse IgG (H+L) Secondary Antibody (31430) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1) and U87-MG (Lane 2). The blots were probed with Anti-SOD2 Mouse Monoclonal Antibody (Product # MA1-106, 0.25 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 31430) at dilutions 1:5,000 (Fig. 1), 1:100,000 (Fig. 2) and 1:200,000 (Fig. 3). A 25 kDa band corresponding to SOD2 was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary antibody after blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

View more figures on thermofisher.com

2048 References

Genetic and pharmacological reduction of CDK14 mitigates synucleinopathy. Cell Death Dis (2024)

Yin Yang 1 facilitates the activation, inflammation, and extracellular matrix deposition of hepatic stellate cells in hepatic fibrosis. Pathol Int (2024)

PCSK9 stimulates Syk, PKC, and NF-B, leading to atherosclerosis progression independently of LDL receptor. Nat Commun (2024)

ER-stress response in retinal Müller glia occurs significantly earlier than amyloid pathology in the Alzheimer's mouse brain and retina. Glia (2024)

A protocol for isolation and culturing of mouse primary postmitotic photoreceptors and isolation of extracellular vesicles. STAR Protoc (2024)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.