



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 610-1319-0100****Mouse IgG (H&L) Secondary Antibody Peroxidase Conjugated Pre-Adsorbed****Overview**

<b>Description:</b>	Goat Anti-Mouse IgG (H&L) Antibody Peroxidase Conjugated (Min X Human Serum Proteins) - 610-1319-0100
<b>Item No.:</b>	610-1319-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IHC, Other, WB
<b>Reactivity:</b>	Mouse
<b>Host Species:</b>	Goat

**Product Details**

<b>Background:</b>	Anti-Mouse IgG Peroxidase Antibody generated in goat detects reactivity to Mouse IgG. Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.
<b>Synonyms:</b>	Goat Anti-Mouse IgG Secondary Antibody Peroxidase Conjugated, Goat Anti-Mouse IgG Secondary Antibody HRP Conjugated, GAM-HRP, Anti-mouse secondary antibody, anti-mouse HRP antibody, horseradish peroxidase conjugated secondary antibody, anti-mouse horseradish peroxidase conjugated secondary antibody
<b>Host Species:</b>	Goat
<b>Specificity:</b>	IgG (H&L)
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Clonality:</b>	Polyclonal

**Format:** IgG

## Target Details

**Reactivity:** Mouse

**Immunogen:** Mouse IgG whole molecule

**Purity/Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using Mouse IgG coupled to agarose. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Mouse IgG and Mouse Serum. No reaction was observed against Human Serum Proteins.

## Application Details

**Tested Applications:** ELISA

**Suggested Applications:** IHC, Other, WB (Based on references)

**Application Note:** Mouse secondary antibody conjugated to horseradish peroxidase is available in a variety of formats. Anti-Mouse IgG Peroxidase Antibody has been tested by ELISA and is suitable for ELISA, Immunohistochemistry western blotting as well as other HRP antibody based assays.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:10,000-1:100,000

**IHC:** 1:500-1:5,000

**WB:** 1:5,000-1:40,000

## Formulation

**Physical State:** Lyophilized

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Stabilizer:** 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

**Reconstitution Volume:** 100 µL

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

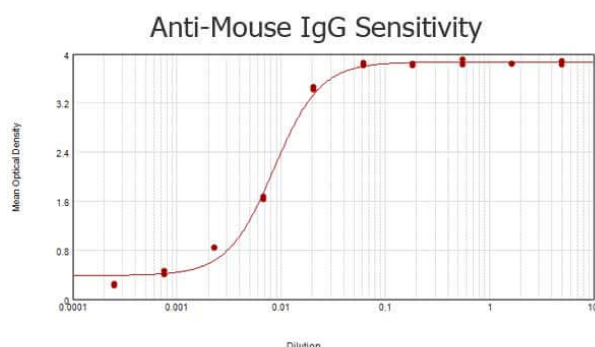
## Shipping & Handling

**Shipping Condition:** Ambient

**Storage Condition:** Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### ELISA

ELISA results of purified Goat anti-Mouse IgG Antibody Peroxidase Conjugated (Min x Human Serum Proteins) tested against purified Mouse IgG. Each well was coated in duplicate with 1.0 µg of Mouse IgG (p/n 009-0102). The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gelatin and TME ELISA Peroxidase Substrate (p/n TMBE-1000).

## References

- Chen Y et al. Unannotated microprotein EMBOW regulates the interactome and chromatin and mitotic functions of WDR5. *Cell Rep.* (2023)
- Cao X et al. Nascent alt-protein chemoproteomics reveals a pre-60S assembly checkpoint inhibitor. *Nat Chem Biol.* (2022)
- Na Z et al. Mapping subcellular localizations of unannotated microproteins and alternative proteins with MicroID. *Mol Cell.* (2022)
- Guo Y et al. p53 isoforms differentially impact on the POLI dependent DNA damage tolerance pathway. *Cell Death Dis.* (2021)
- Na Z et al. Phosphorylation of a Human Microprotein Promotes Dissociation of Biomolecular Condensates. *J Am Chem Soc.* (2021)

- Glanz A et al. Autophagic degradation of IRF3 induced by the small-molecule auranofin inhibits its transcriptional and proapoptotic activities. *J Biol Chem.* (2021)
- Chowdhury D et al. Metallothionein 3-Zinc Axis Suppresses Caspase-11 Inflammasome Activation and Impairs Antibacterial Immunity. *Front Immunol.* (2021)
- Shrestha RL et al. CENP-A overexpression promotes aneuploidy with karyotypic heterogeneity. *J Cell Biol.* (2021)
- Luo Y et al. Discovery of cellular substrates of human RNA-decapping enzyme DCP2 using a stapled bicyclic peptide inhibitor. *Cell Chem Biol.* (2020)
- Luo Y et al. Global profiling of cellular substrates of human Dcp2. *Biochemistry.* (2020)
- Merlet AN et al. Muscle structural, energetic and functional benefits of endurance exercise training in sickle cell disease. *Am J Hematol.* (2020)
- Gruber CN et al. Mapping Systemic Inflammation and Antibody Responses in Multisystem Inflammatory Syndrome in Children (MIS-C). *Cell.* (2020)
- Na Z et al. The NBDY microprotein regulates cellular RNA decapping. *Biochemistry.* (2020)
- Monette A. et al. Pan-retroviral Nucleocapsid-Mediated Phase Separation Regulates Genomic RNA Positioning and Trafficking. *Cell Rep.* (2020)
- Roscoe S et al. Formation of mRNP granules in *Toxoplasma gondii* during the lytic cycle. *Mol Biochem Parasitol.* (2020)
- Granger MW et al. Distinct disruptions in Land's cycle remodeling of glycerophosphocholines in murine cortex mark symptomatic onset and progression in two Alzheimer's disease mouse models. *J Neurochem.* (2019)
- O'Neill et al. The 3' UTRs of Brain-Derived Neurotrophic Factor Transcripts Differentially Regulate the Dendritic Arbor. *Frontiers in Cellular Neuroscience* (2018)
- Crater AK et al. *Toxoplasma* ubiquitin-like protease 1, a key enzyme in sumoylation and desumoylation pathways, is under the control of non-coding RNAs. *Int J Parasitol.* (2018)
- D'Lima et al. A human microprotein that interacts with the mRNA decapping complex. *Nature Chemical Biology* (2017)
- Castaño et al. Folate Transporters in Placentas from Preterm Newborns and Their Relation to Cord Blood Folate and Vitamin B12 Levels. *PLOS One* (2017)
- Fernandez-Verdejo R et al. Activating transcription factor 3 attenuates chemokine and cytokine expression in mouse skeletal muscle after exercise and facilitates molecular adaptation to endurance training. *FASEB J.* (2017)
- Shrestha RL et al. Mislocalization of centromeric histone H3 variant CENP-A contributes to chromosomal instability (CIN) in human cells. *Oncotarget.* (2017)
- Ciesielska A et al. Bis (monoacylglycero) phosphate inhibits TLR4-dependent RANTES production in macrophages. *Int J Biochem Cell Biol.* (2017)
- Granger MW et al. A TgCRND8 mouse model of Alzheimer's disease exhibits sexual dimorphisms in behavioral indices of cognitive reserve. *J Alzheimers Dis.* (2016)
- Crater AK et al. Utilization of inherent miRNAs in functional analyses of *Toxoplasma gondii* genes. *J Microbiol Methods.* (2015)
- Hashimoto H et al. Structure of a *Naegleria* Tet-like dioxygenase in complex with 5-methylcytosine DNA. *Nature.* (2014)

- Cherry AA et al. Characterization of a homolog of DEAD-box RNA helicases in *Toxoplasma gondii* as a marker of cytoplasmic mRNP stress granules. *Gene*. (2014)
- Ray, B et al. Human primary mixed brain cultures: preparation, differentiation, characterization and application to neuroscience research. *Molecular Brain* (2014)
- Wang F et al. Phosphoproteome analysis of an early onset mouse model (Tg CRND 8) of Alzheimer's disease reveals temporal changes in neuronal and glia signaling pathways. *Proteomics*. (2013)
- Frasca D et al. A molecular mechanism for TNF- $\alpha$ -mediated downregulation of B cell responses. *J Immunol*. (2012)
- Horn P et al. Circulating microparticles carry a functional endothelial nitric oxide synthase that is decreased in patients with endothelial dysfunction. *J Am Heart Assoc*. (2012)
- LeVine H et al. Dihydroxybenzoic acid isomers differentially dissociate soluble biotinyl-A $\beta$ (1-42) oligomers. *Biochemistry* (2012)
- Zhang X et al. Vaccination with different M2e epitope densities confers partial protection against H5N1 influenza A virus challenge in chickens. *Intervirology*. (2011)
- Reeves TM et al. Proteolysis of submembrane cytoskeletal proteins ankyrin-G and  $\alpha$ II-spectrin following diffuse brain injury: a role in white matter vulnerability at Nodes of Ranvier. *Brain Pathology (Zurich, Switzerland)* (2010)
- Frasca D et al. Protein phosphatase 2A (PP2A) is increased in old murine B cells and mediates p38 MAPK/tristetraprolin dephosphorylation and E47 mRNA instability. *Mech Ageing Dev*. (2010)
- McCall LI et al. Localization and induction of the A2 virulence factor in *Leishmania*: evidence that A2 is a stress response protein. *Mol Microbiol*. (2010)
- Ronsyn MW et al. Plasmid-based genetic modification of human bone marrow-derived stromal cells: analysis of cell survival and transgene expression after transplantation in rat spinal cord. *BMC Biotechnol*. (2007)
- Van Komen JS et al. The polybasic juxtamembrane region of Sso1p is required for SNARE function in vivo. *Eukaryot Cell*. (2005)
- Frasca D et al. RNA stability of the E2A-encoded transcription factor E47 is lower in splenic activated B cells from aged mice. *J Immunol*. (2005)
- Frasca D et al. Reduced Ig class switch in aged mice correlates with decreased E47 and activation-induced cytidine deaminase. *J Immunol*. (2004)
- Frasca D et al. Age-related differences in the E2A-encoded transcription factor E47 in bone marrow-derived B cell precursors and in splenic B cells. *Exp Gerontol*. (2004)
- Frasca D et al. Effects of aging on proliferation and E47 transcription factor activity induced by different stimuli in murine splenic B cells. *Mech Ageing Dev*. (2003)
- Frasca D et al. The age-related decrease in E47 DNA-binding does not depend on increased Id inhibitory proteins in bone marrow-derived B cell precursors. *Front Biosci*. (2003)

## Disclaimer

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