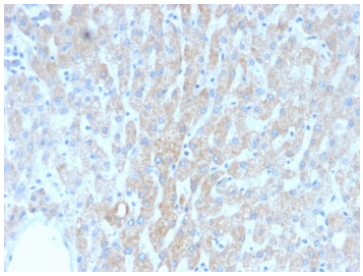
Recombinant HSP60 Antibody / HSPD1 [clone rGROEL/780] (V3576)

Catalog No.	Formulation	Size
V3576-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3576-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3576SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3576IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

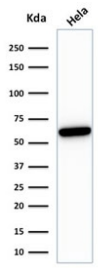
Recombinant | MOUSE MONOCLONAL

Bulk quote request

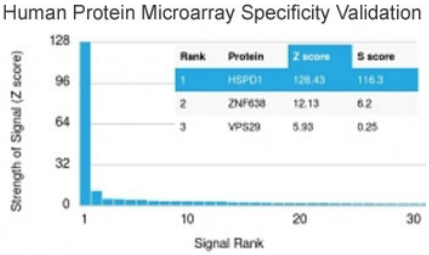
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rGROEL/780
Purity	Protein G affinity chromatography
UniProt	P10809
Localization	Cytoplasm (mitochondria)
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT (1)
Limitations	This recombinant HSP60 antibody is available for research use only.



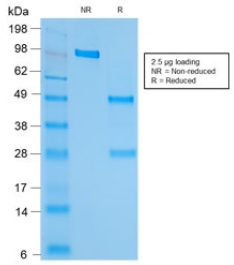
IHC testing of FFPE human liver tissue with recombinant HSP60 antibody (clone rGROEL/780). HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human HeLa lysate with recombinant HSP60 antibody (clone rGROEL/780). Predicted molecular weight: ~60 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant HSP60 antibody (clone rGROEL/780). These results demonstrate the foremost specificity of the rGROEL/780 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant HSP60 antibody (clone rGROEL/780) as confirmation of integrity and purity.

Description

Recombinant CD52 antibody is a specialized reagent for detecting CD52, a glycosylphosphatidylinositol anchored glycoprotein expressed on the surface of mature lymphocytes. CD52 is present on most B cells, T cells, and some monocytes, while being absent from stem cells and plasma cells. Because of its restricted expression pattern, CD52 is a useful marker in immunology and hematology research.

CD52 is a small protein with a short amino acid sequence but carries a complex glycosylation pattern. Its precise biological functions remain incompletely defined, yet it has been implicated in modulating immune activation and cellular adhesion. CD52 expression on lymphocytes makes it a therapeutic target, as seen in monoclonal antibody therapies used for chronic lymphocytic leukemia and multiple sclerosis.

The Recombinant CD52 antibody clone CD52/2276R provides highly specific detection. Recombinant technology guarantees batch to batch consistency and dependable results across studies. Clone CD52/2276R has been used in research exploring lymphocyte biology, immune regulation, and therapeutic antibody development. Its consistent performance ensures accurate recognition of CD52 in varied experimental systems.

Research using clone CD52/2276R has advanced knowledge of how CD52 expression influences immune regulation and how it can be targeted for therapy. Because it is widely expressed on mature lymphocytes, CD52 is valuable in identifying cell populations in immunological studies and in monitoring treatment responses in hematologic malignancies. The antibody also aids in clarifying the mechanisms underlying antibody mediated depletion of lymphocytes.

NSJ Bioreagents offers this Recombinant CD52 antibody to support high quality research in immunology, hematology, and therapeutic development. Alternate terms include cluster of differentiation 52 antibody, CAMPATH 1 antigen

antibody, lymphocyte surface glycoprotein CD52 antibody, and mature lymphocyte antigen antibody. These synonyms illustrate the various ways CD52 is referenced in scientific contexts.

Clone rGROEL/780, unlike LK2, recognizes only the mammalian (not bacterial) hsp60 and is useful in distinguishing hsp60 from mammals and bacteria.

Application Notes

Optimal dilution of the recombinant HSP60 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the recombinant HSP60 antibody. The Its epitope has been localized between amino acids 383-447.

Storage

Store the recombinant HSP60 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).