

Datasheet for ABIN6939669

Recombinant anti-HSPD1 antibody[Go to Product page](#)**4** Images

Overview

Quantity:	100 µg
Target:	HSPD1
Reactivity:	Human, Mouse, Rat, Chicken, Monkey, Dog, Hamster, Cow, Rabbit, Pig, Sheep, Drosophila melanogaster, Xenopus laevis
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This HSPD1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunostaining (Ist), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human HSP60 protein
Clone:	RGROEL-780
Isotype:	IgG1 kappa
Specificity:	Recognizes a 60 kDa protein, identified as the heat shock protein 60 (hsp60). Its epitope is localized between aa 383-447 of human hsp60. A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (hsp's), more appropriately called as stress response proteins (srp's). hsp60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the

Product Details

development of immune reactivity directed against not only bacterial hsp60, but also against its mammalian homolog. Clone rGROEL/780, unlike LK2, recognizes only the mammalian (not bacterial) hsp60 and is useful in distinguishing hsp60 from mammals and bacteria.

No Cross-Reactivity: Bacteria, Nematode, Spinach (*Spinacia oleracea*)

Purification: Purified by Protein A/G

Target Details

Target: HSPD1

Alternative Name: HSPD1 ([HSPD1 Products](#))

Molecular Weight: 60kDa

Gene ID: 3329

UniProt: [P10809](#)

Pathways: [Activation of Innate immune Response](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Positive Control: HeLa or HepG2 cells. Synovial biopsies from patients with juvenile chronic arthritis. Synovial lining layer is strongly positive for hsp60. Breast carcinoma.
Known Application: Western Blot (0.25-0.5 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

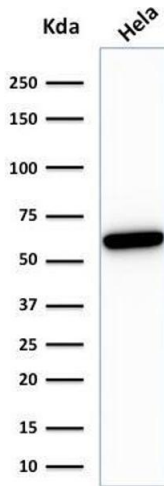
Handling

Storage: 4 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

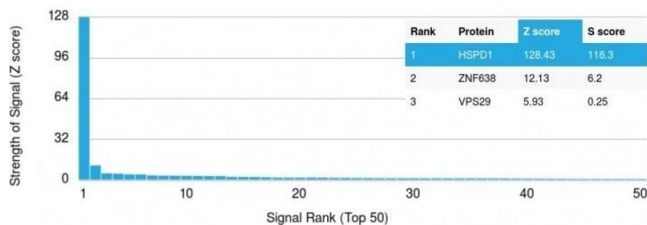
Expiry Date: 24 months

Images



Western Blotting

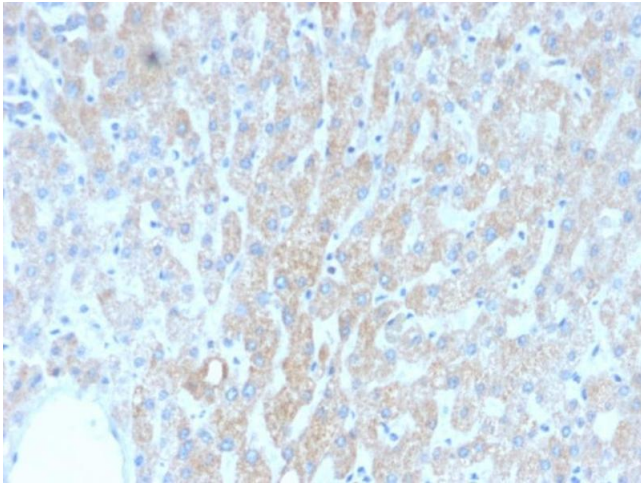
Image 1. Western Blot Analysis of HeLa cell lysate using HSP60 Mouse Recombinant Monoclonal Antibody (rGROEL/780).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using HSP60 Mouse Monoclonal Antibody (rGROEL/780). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb

to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Liver stained with HSP60 Mouse Recombinant Monoclonal Antibody (rGROEL/780).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939669.