



Cat nr AE00139

Product Datasheet

Recombinant Mouse Antibody, clone rGROEL/780 to:

HSP60, GroEL

60 kDa heat shock protein; Chaperonin 60; Heat shock protein 60; Heat shock protein family D (Hsp60) member ;, mitochondrial 60 kDa chaperonin; Mitochondrial matrix protein P1; P60 lymphocyte protein; CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HSPD1; HuCHA60; SPG13

Cellular localization Mitochondria

Official Symbol (Gene) HSPD1

GenelD 3329

SwissProt P10809

Confirmed Applications	IHC, WB, PA
Positive controls	HeLa, HepG2, synovial lining from juvenile chronic arthritis, breast carcinoma.
Aeonian Rating©	95

Purification	<input type="checkbox"/>	By Protein G from bioreactor concentrate
Formulation	<input type="checkbox"/>	200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug)
	<input type="checkbox"/>	1mg IgG/ml in PBS (100ug or contact us for quotation)
Amount	<input type="checkbox"/>	20ug
	<input type="checkbox"/>	100ug
Isotype		Mouse IgG1, kappa
Confirmed species reactivity		Human
Immunogen		Recombinant full-length human HSP60 protein

Epitope Within aa 383-447 region

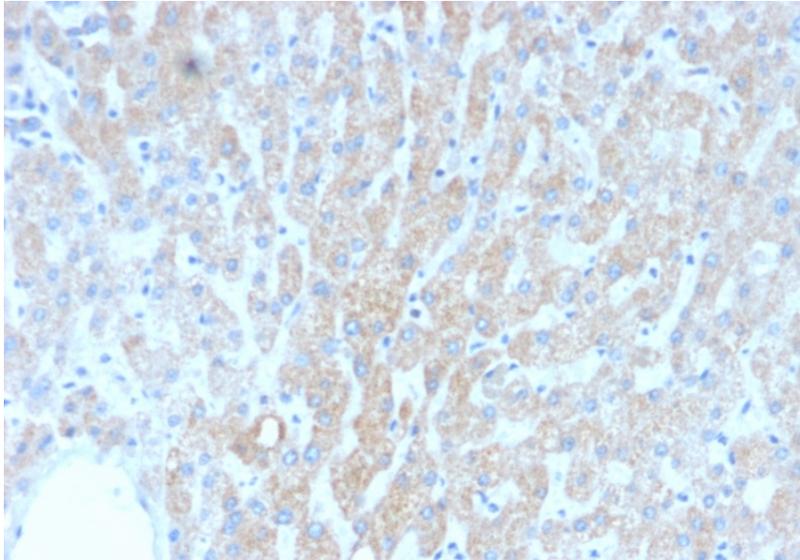
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.

Product performance see next pages

Product data:

ImmunoHistoChemistry (IHC):

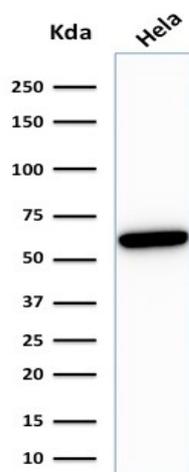
This product shows staining in human liver sections. Recommended concentration: 1-3ug/ml



Formaldehyde-fixed, paraffin-embedded human liver stained with HSP60 Mouse Recombinant Antibody AE00139 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Heating at 95°C for 45 min at pH9 followed by 20 min cooling. DAB staining by HRP polymer.

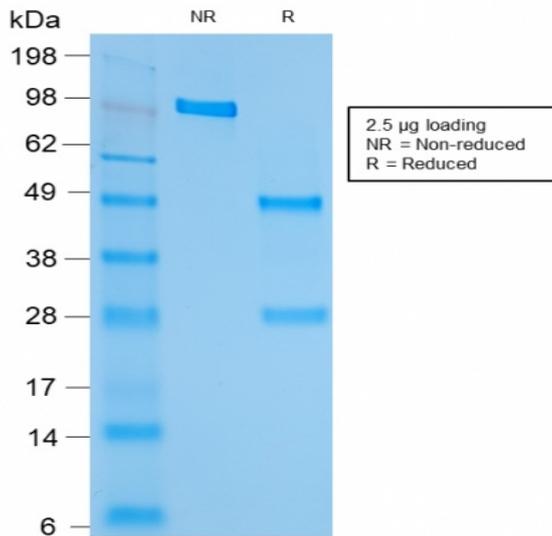
Western Blot (WB):

This product was successfully used to stain an approx. 60kDa band in lysates of cell line HeLa. Recommended concentration: 0.3-1ug/ml



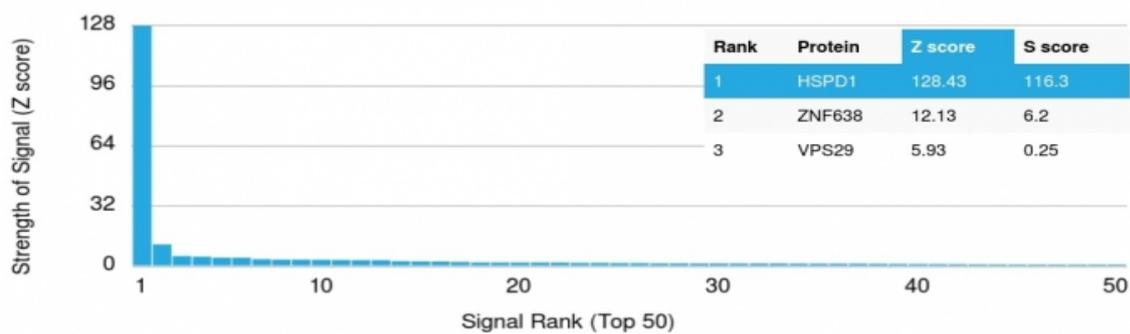
Western Blot of a HeLa lysate (30ug) stained with HSP60 Mouse Recombinant Antibody AE00139 at 0.3-0.6ug/ml (1h at ambient temp). ECL staining by HRP.

SDS-PAGE Analysis of Purified HSP60 Mouse Recombinant Antibody AE00139. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00139 under non-reduced and reduced conditions, showing intact IgG at around 100kDa (NR) and intact heavy and light chains at 50kDa and 28kDa resp. (R).

Specificity and selectivity of AE00139 to HSP60 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed no closely related proteins.



Cross-reactivity assessment of HSP60 Mouse Recombinant Antibody AE00139 (1µg/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).