

Lot #XXXXX

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MATERIAL DATA SHEET

Anti-HSP60/CPN60 Monoclonal Antibody

Cat. # A-420

Heat shock proteins (HSPs) are a family of highly conserved stress response proteins. Heat shock proteins function primarily as molecular chaperones by facilitating the folding of other cellular proteins, preventing protein aggregation or targeting improperly folded proteins to specific degradative pathways. HSPs are typically expressed at low levels under normal physiological conditions but are dramatically up-regulated in response to cellular stress. Heat Shock Protein 60 (HSP60), also known as Chaperonin 60 (CPN60), is a mitochondrial matrix protein belonging to a highly conserved family of molecular chaperone and stress response proteins. HSP60 plays a role in stabilizing and refolding proteins in response to heat shock or other cellular stress.

Product Information

Quantity:	50 µg
Source:	Monoclonal Mouse IgG _{2B} Clone # 264233
Antigen:	Purified, recombinant human HSP60, Accession Number P10809.
Stock:	0.5 mg/mL in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide

Use & Storage

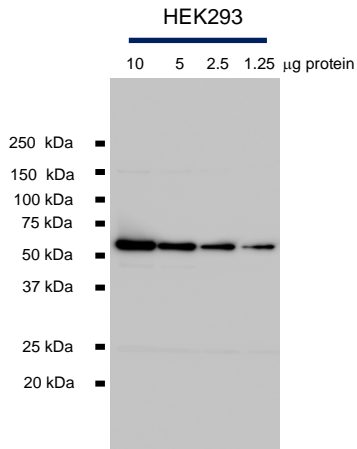
Use:	Recommended concentration for Western blot analysis is 0.2 µg/ml. Recommended concentration for Immunocytochemistry is 8-25µg/mL. Detects human, mouse, and rat HSP60.
Storage:	Store at -20°C.

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Sample Western Blot Data



NP40-soluble proteins from human embryonic kidney (HEK) cells were diluted in reducing SDS-PAGE Sample Buffer prior to separation on 4-20% gradient gels. Western blots utilizing PVDF membranes were developed using anti-HSP60 (A-420 antibody) at 0.2 µg/ml and HRP-labeled anti-mouse (R&D Systems # HAF007) secondary at 1:2000 dilution. A single band of appropriate size was detected in the HEK293 cell extract.

Literature

References: Gotoh T., *et al.* (2002) *J. Biol. Chem.* **277**:12343-50.

For Laboratory Research Use Only, Not For Use in Humans

Rev: 11/15/2013

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