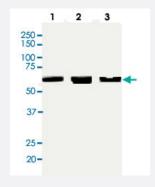


HSPD1 monoclonal antibody, clone 2E9

Catalog # MAB1121 Size 100 uL

Applications



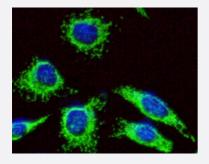
Western Blot (Cell lysate)

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: HeLa cell lysate, Lane 3: A549 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemistry of human colon cancer tissue were incubated with HSPD1 monoclonal antibody, clone 2E9 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with HSPD1 monoclonal antibody, clone 2E9 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Product Description Mouse monoclonal antibody raised against full length recombinant HSPD1.

Immunogen Recombinant protein corresponding to full length human HSPD1.



Product Information

Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	lgG1, kappa
Recommend Usage	ELISA Immunocytochemistry Immunofluorescence Immunohistochemistry Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

Western Blot (Cell lysate)

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- Immunocytochemistry
- Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with HSPD1 monoclonal antibody, clone 2E9 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Enzyme-linked Immunoabsorbent Assay

Gene Info — HSPD1



Product Information

Entrez GenelD	<u>3329</u>
GeneBank Accession#	NM_002156
Protein Accession#	NP_002147
Gene Name	HSPD1
Gene Alias	CPN60, GROEL, HLD4, HSP60, HSP65, HuCHA60, SPG13
Gene Description	heat shock 60kDa protein 1 (chaperonin)
Omim ID	<u>118190</u> <u>605280</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may f unction as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a relate d family member and the region between the 2 genes functions as a bidirectional promoter. Two pseudogenes, both located on chromosome 8, have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq

Publication Reference

Hsp60 regulation of tumor cell apoptosis.

Ghosh JC, Dohi T, Kang BH, Altieri DC.

The Journal of Biological Chemistry 2008 Feb; 283(8):5188.

Application: IHC, WB, WB-Tr, Human, HCT116, MCF-7 cells, breast, colon, lung adenocarcinomas

• The mitochondrial chaperonin hsp60 is required for its own assembly.

Cheng MY, Hartl FU, Horwich AL.

Nature 1990 Nov; 348(6300):455.

Application: WB-Tr, Rabbit, Rabbit reticulocytes

Pathway

RNA degradation



• Type I diabetes mellitus

Disease

- Alzheimer disease
- Arthritis
- Cardiovascular Diseases
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasms
- Osteoporosis
- Spastic Paraplegia