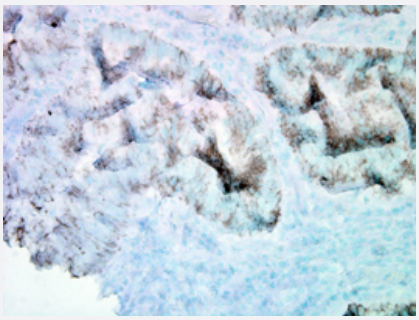
HSPD1 monoclonal antibody, clone LK2

Catalog # MAB6622 Size 200 ug

Applications



Immunohistochemistry

Immunohistochemical staining of human colon tissue with HSPD1 monoclonal antibody, clone LK2 (Cat # MAB6622).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant HSPD1.
Immunogen	Recombinant protein corresponding to human HSPD1.
Host	Mouse
Reactivity	Bovine, Chicken, Dog, Escherichia coli, Guinea pig, Hamster, Helicobacter pylori, Human, Monkey, Mouse, Nematoda, Pig, Plants, Rabbit, Rat, S. typhi, Yeast
Specificity	Detects an ~60KDa protein corresponding to the molecular mass of Hsp60 on SDS PAGE immunob lots.
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (0.25 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.1 mM PMSF)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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Applications

- Immunohistochemistry

  Immunohistochemical staining of human colon tissue with HSPD1 monoclonal antibody, clone LK2 (Cat # MAB6622).

- Flow Cytometry

- Western Blot

Gene Info — HSPD1

Entrez GeneID	3329
Gene Name	HSPD1
Gene Alias	CPN60, GROEL, HLD4, HSP60, HSP65, HuCHA60, SPG13
Gene Description	heat shock 60kDa protein 1 (chaperonin)
Omim ID	118190 605280
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function 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 related 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
Other Designations	P60 lymphocyte protein|chaperonin|heat shock 60kD protein 1 (chaperonin)|heat shock protein 65|mitochondrial heat shock 60kD protein 1 variant 1|mitochondrial matrix protein P1|short heat shock protein 60 Hsp60s1|spastic paraplegia 13 (autosomal dominant)

Publication Reference

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- Interaction of antibodies against cytomegalovirus with heat-shock protein 60 in pathogenesis of atherosclerosis.

  Bason C, Corrocher R, Lunardi C, Puccetti P, Olivieri O, Girelli D, Navone R, Beri R, Millo E, Margonato A, Martinelli N, Puccetti A.

  Lancet 2003 Dec; 362(9400):1971.

  Application: IP, WB-Ce, WB-Tr, Flow Cyt, ELISA, Human, Monkey, Endothelial, COS cells, Serum

- Mammalian HSP60 is quickly sorted into the mitochondria under conditions of dehydration.

  Itoh H, Komatsuda A, Ohtani H, Wakui H, Imai H, Sawada K, Otaka M, Ogura M, Suzuki A, Hamada F.

  European Journal of Biochemistry 2002 Dec; 269(23):5931.

  Application: IHC, WB, Rat, Livers, Kidneys

- The Hsp70 and Hsp60 chaperone machines.

  Bukau B, Horwich AL.

  Cell 1998 Feb; 92(3):351.

  Application: WB-Ce, WB-Tr, Human, Mammalian cells

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

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- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasms
- Osteoporosis
- Spastic Paraplegia

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