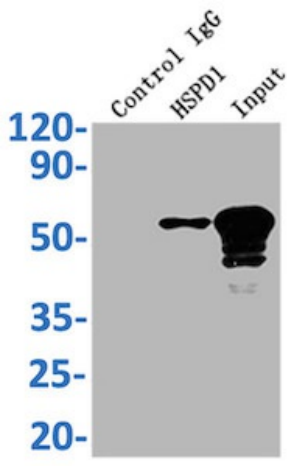
RecomAb™ Sm Size

HSPD1 recombinant monoclonal antibody, clone 3D8

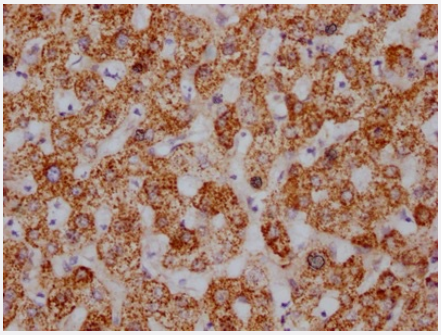
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Applications



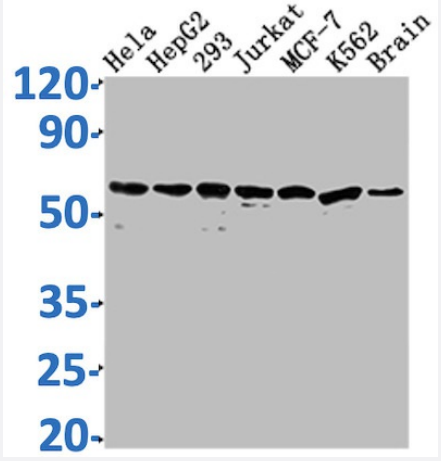
Immunohistochemistry

Immunohistochemistry staining in paraffin-embedded human liver tissue.



Immunoprecipitation

Immunoprecipitating HSPD1 in HepG2 whole cell lysate.



Western Blot

Western Blot analysis of (1) Hela whole cell lysate, (2) HepG2 whole cell lysate, (3) 293 whole cell lysate, (4) Jurkat whole cell lysate, (5) MCF-7 whole cell lysate, (6) K562 whole cell lysate, (7) Mouse brain tissue.

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse HSPD1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human HSPD1.
Reactivity	Human, Mouse
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity-chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Immunoprecipitation(1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -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

- Immunohistochemistry

  Immunohistochemistry staining in paraffin-embedded human liver tissue.

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

  Immunoprecipitating HSPD1 in HepG2 whole cell lysate.

- Western Blot

  Western Blot analysis of (1) Hela whole cell lysate, (2) HepG2 whole cell lysate, (3) 293 whole cell lysate, (4) Jurkat whole cell lysate, (5) MCF-7 whole cell lysate, (6) K562 whole cell lysate, (7) Mouse brain tissue.

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Gene Info — HSPD1

Entrez GeneID	3329
Protein Accession#	P10809
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)

Pathway

- RNA degradation
- Type I diabetes mellitus

Disease

- Alzheimer disease
- Arthritis
- Cardiovascular Diseases
- Coronary Disease

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- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasms
- Osteoporosis
- Spastic Paraplegia

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