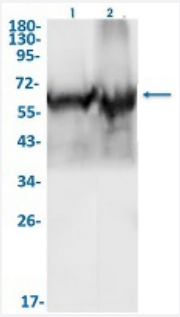
RecomAb™

HSPD1 recombinant monoclonal antibody, clone R02-5B7

Catalog # RAB02199 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: rat brain and Lane 2: 3T3 lysates with HSPD1 recombinant monoclonal antibody, clone R02-5B7 (Cat # RAB02199).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HSPD1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human HSPD1.
Theoretical MW (kDa)	Calculated MW: 61 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.

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Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at -20 °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 (Formalin/PFA-fixed paraffin-embedded sections)
- Western Blot

  Western Blot analysis of Lane 1: rat brain and Lane 2: 3T3 lysates with HSPD1 recombinant monoclonal antibody, clone R02-5B7 (Cat # RAB02199).

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 f unction as a signaling molecule in the innate immune system. This protein is essential for the foldi ng 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 transcri pt variants encoding the same protein have been identified for this gene. Mutations associated wi th 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 sho ck protein 60 Hsp60s1|spastic paraplegia 13 (autosomal dominant)

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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

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