abcam

Product datasheet

Recombinant mouse Hsp60 protein ab92364

1 References 3 Images

Description

Product name	Recombinant mouse Hsp60 protein
Biological activity	ATPase Activity Assay: Positive
Purity	> 90 % SDS-PAGE. >90% pure as determined by SDS-PAGE and Western blot analyses. This protein does not contain E. coli GroEL as demonstrated by western blot analysis.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse

Specifications

Our **Abpromise guarantee** covers the use of **ab92364** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies SDS-PAGE
Form	Liquid

Preparation and Storage

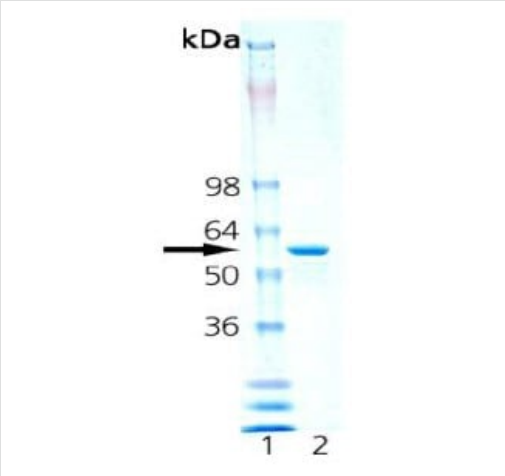
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. Constituents: 0.0154% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.158% Tris HCl, 0.0292% EDTA, 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the

	correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.
Involvement in disease	Defects in HSPD1 are a cause of spastic paraplegia autosomal dominant type 13 (SPG13) [MIM:605280]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Defects in HSPD1 are the cause of leukodystrophy hypomyelinating type 4 (HLD4) [MIM:612233]; also called mitochondrial HSP60 chaperonopathy or MitCHAP-60 disease. HLD4 is a severe autosomal recessive hypomyelinating leukodystrophy. Clinically characterized by infantile-onset rotary nystagmus, progressive spastic paraplegia, neurologic regression, motor impairment, profound mental retardation. Death usually occurrs within the first two decades of life.
Sequence similarities	Belongs to the chaperonin (HSP60) family.
Cellular localization	Mitochondrion matrix.

Images

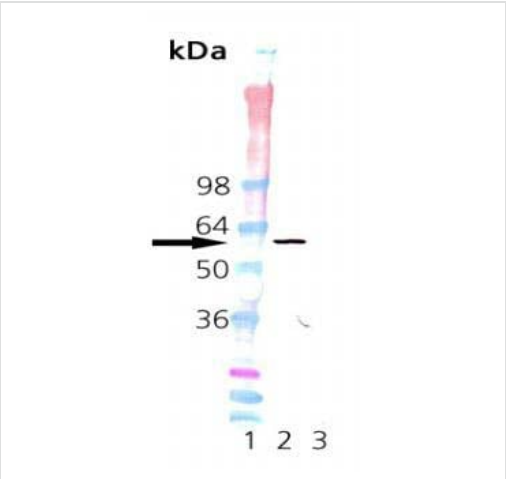


SDS-PAGE - Recombinant mouse Hsp60 protein (ab92364)

SDS-PAGE Analysis:

Lane 1: Molecular weight markers

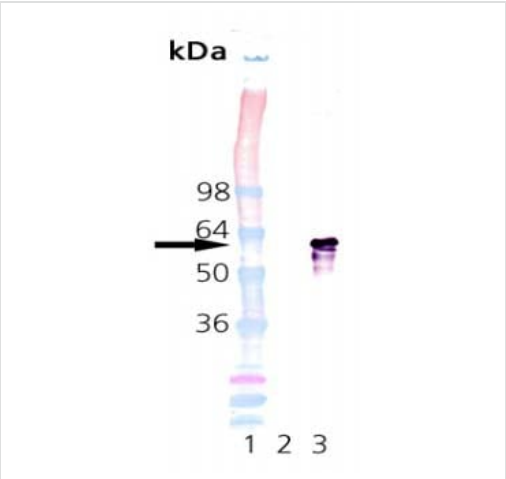
Lane 2: ab92364 at 2.0 µg



Western blot - Recombinant mouse Hsp60 protein (ab92364)

All lanes : Hsp60 monoclonal antibody at 1 µg/ml

Lane 1 : Molecular weight markers
Lane 2 : ab92364 at 0.1 µg
Lane 3 : E. coli GroEL Protein at 0.1 µg



Western blot - Recombinant mouse Hsp60 protein (ab92364)

All lanes : GroEL monoclonal antibody at 1 µg/ml

Lane 1 : Molecular weight markers
Lane 2 : ab92364 at 0.1 µg
Lane 3 : E. coli GroEL Protein at 0.1 µg

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