abcam

Product datasheet

Recombinant Human Hsp60 protein ab113177

2 Images

Overview

Product name	Recombinant Human Hsp60 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P10809
Species	Human
Molecular weight	61 kDa
Amino acids	1 to 573

Specifications

Our Abpromise guarantee covers the use of **ab113177** 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
Endotoxin level	< 50.000 Eu/mg
Purity	> 90 % SDS-PAGE. ab113177 was purified by multi-step chromatography.
Form	Liquid

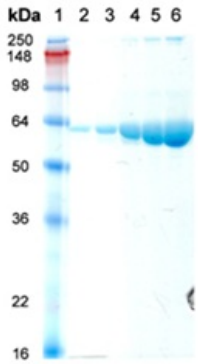
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. Preservative: 0.09% Sodium azide Constituents: 99% PBS, Phosphate Buffer

General Info

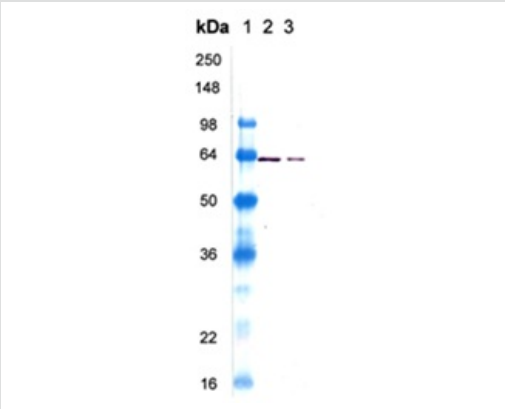
Function	Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.
Involvement 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 Human Hsp60 protein (ab113177)

SDS-PAGE analysis of ab113177: Lane 1: MW marker, Lane 2: 0.5ug, Lane 3: 1ug, Lane 4: 2.5ug, Lane 5: 5ug, Lane 6: 10ug.



Western blot - Recombinant Human Hsp60 protein (ab113177)

All lanes : a monoclonal anti Hsp60 protein

Lane 1 : molecualr weight marker

Lane 2 : Recombinant Human Hsp60 protein (ab113177) at 0.1 µg

Lane 3 : Recombinant Human Hsp60 protein (ab113177) at 0.05 µg

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