abcam

## Product datasheet

# Recombinant human Hsp60 protein ab78430

1 References 1 Image

### Description

| | |
|---|---|
| **Product name** | Recombinant human Hsp60 protein |
| **Biological activity** | ab78430 has ATPase activity at the time of manufacture of 3.6µM phosphate liberated/hr/µg protein in a 200µl reaction at 37°C (pH7.5) in the presence of 20ul of 1mM ATP using a Malachite Green assay. |
| **Purity** | > 90 % SDS-PAGE.<br>ab78430 is affinity purified. |
| **Expression system** | Escherichia coli |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Tags** | His tag N-Terminus |

### Specifications

Our **Abpromise guarantee** covers the use of **ab78430** in the following tested applications.

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

| | |
|---|---|
| **Applications** | SDS-PAGE<br>Western blot<br>ELISA<br>Competitive Binding Assays |
| **Form** | Liquid |

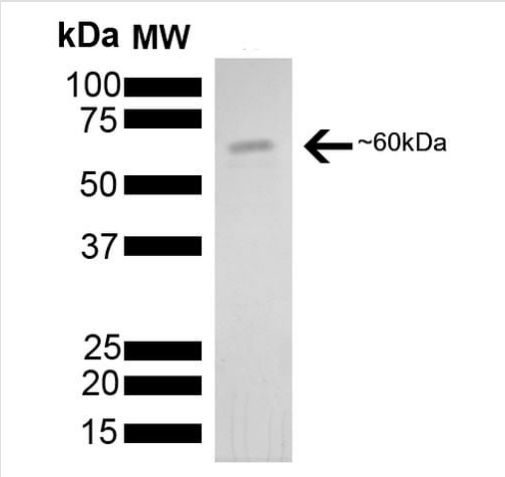
### Preparation and Storage

| | |
|---|---|
| **Stability and Storage** | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.<br>Preservative: 1.36% Imidazole<br>Constituents: 0.87% Sodium chloride, 10% Glycerol (glycerin, glycerine), 0.328% Sodium phosphate<br>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.<br>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 (ab78430)

SDS-PAGE of 60kDa Hsp60 protein (ab78430)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors