abcam

Product datasheet

Anti-Hsp60 antibody ab82520

2 References 1 Image

Overview

Product name	Anti-Hsp60 antibody
Description	Goat polyclonal to Hsp60
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human, Recombinant fragment
Immunogen	Recombinant human Hsp60 protein
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab82520 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa).

Target

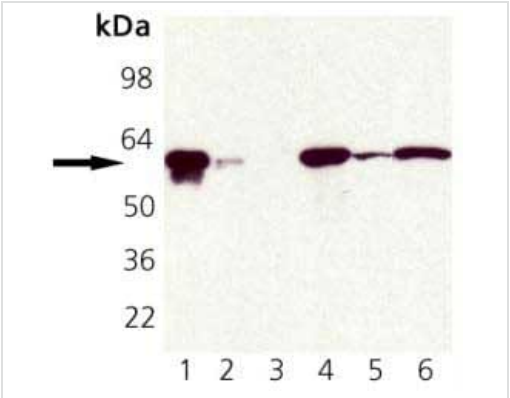
Function
Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.

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



Western blot - Anti-Hsp60 antibody (ab82520)

All lanes : Anti-Hsp60 antibody (ab82520) at 1/1000 dilution

Lane 1 : Hsp60
Active Recombinant Protein
Lane 2 : GroEL
Active Recombinant Protein
Lane 3 : Hsp65 Protein
Lane 4 : HeLa Cell Lysate
Lane 5 : 3T3 Cell Lysate
Lane 6 : RK-13 Cell Lysate

Predicted band size: 61 kDa
Observed band size: 61 kDa

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