

## Product datasheet

# Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free ab239835

Recombinant RabMAb

[5 Images](#)

### Overview

<b>Product name</b>	Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EP1006Y] to Hsp60 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab239835 is the carrier-free version of <a href="#">ab45134</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1006Y
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab239835 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IP.

## Target

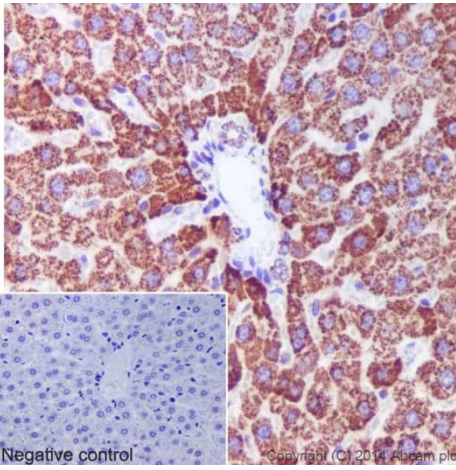
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<b>Function</b>	Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.
<b>Involvement in disease</b>	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 occurs within the first two decades of life.
<b>Sequence similarities</b>	Belongs to the chaperonin (HSP60) family.
<b>Cellular localization</b>	Mitochondrion matrix.

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## Images

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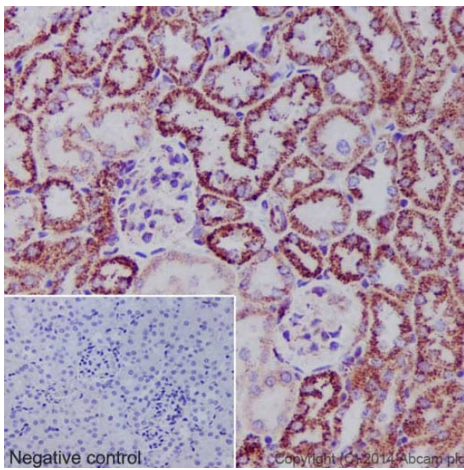
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free (ab239835)

Immunohistochemistry analysis of paraffin-embedded Rat liver labeling Hsp60 with **ab45134** at a 1/200 dilution. Cytoplasmic staining on the hepatocytes of the Rat liver shown. Secondary antibody **ab97051** Goat Anti-Rabbit IgG H&L (HRP) used at a 1/500 dilution. Counter stained with Hematoxylin.

Inset image: negative control obtained using PBS instead of **ab45134**, secondary antibody is Anti-Rabbit HRP (**ab97051**) at 1/500 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45134**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



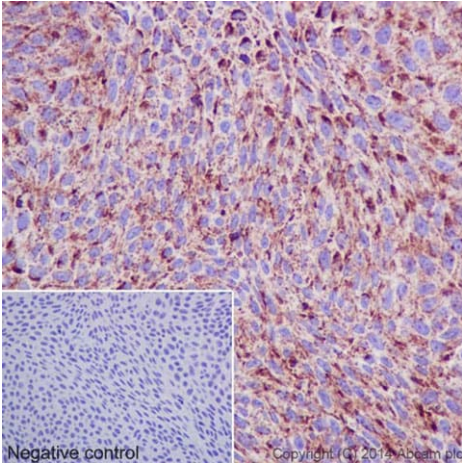
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free (ab239835)

Immunohistochemistry analysis of paraffin-embedded Mouse kidney labeling Hsp60 with **ab45134** at a 1/200 dilution. Cytoplasmic staining on the epithelium of Mouse kidney tubules shown. Secondary antibody **ab97051** Goat Anti-Rabbit IgG H&L (HRP) used at a 1/500 dilution. Counter stained with Hematoxylin.

Inset image: negative control obtained using PBS instead of **ab45134**, secondary antibody is Anti-Rabbit HRP (**ab97051**) at 1/500 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45134**).

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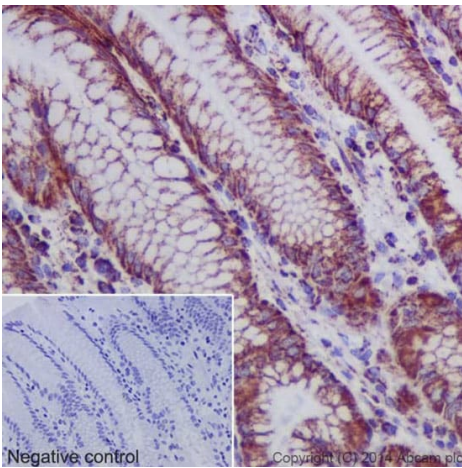
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free (ab239835)

Immunohistochemistry analysis of paraffin-embedded Human transitional carcinoma of bladder labeling Hsp60 with **ab45134** at a 1/200 dilution. Cytoplasmic staining on tumor cells of the Human bladder transitional cell carcinoma shown. Secondary antibody **ab97051** Goat Anti-Rabbit IgG H&L (HRP) used at a 1/500 dilution. Counter stained with Hematoxylin.

Inset image: negative control obtained using PBS instead of **ab45134**, secondary antibody is Anti-Rabbit HRP (**ab97051**) at 1/500 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45134**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free (ab239835)

Immunohistochemistry analysis of paraffin-embedded Human stomach labeling Hsp60 with **ab45134** at a 1/200 dilution. Cytoplasmic staining on the glandular epithelium of the Human stomach shown. Secondary antibody **ab97051** Goat Anti-Rabbit IgG H&L (HRP) used at a 1/500 dilution. Counter stained with Hematoxylin.

Inset image: negative control obtained using PBS instead of **ab45134**, secondary antibody is Anti-Rabbit HRP (**ab97051**) at 1/500 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45134**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Hsp60 antibody [EP1006Y] - BSA and Azide free (ab239835)

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

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

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