

## Product datasheet

# Anti-FHL2 antibody [EPR17860-20] - BSA and Azide free ab251378

KO VALIDATED Recombinant RabMAb

3 Images

### Overview

<b>Product name</b>	Anti-FHL2 antibody [EPR17860-20] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR17860-20] to FHL2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: U-2 OS, HeLa and K562 cell lysates.
<b>General notes</b>	<p>ab251378 is the carrier-free version of <a href="#">ab202584</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>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR17860-20
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab251378 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
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa).
<b>IP</b>		Use at an assay dependent concentration.
<b>ICC/IF</b>		Use at an assay dependent concentration.

## Target

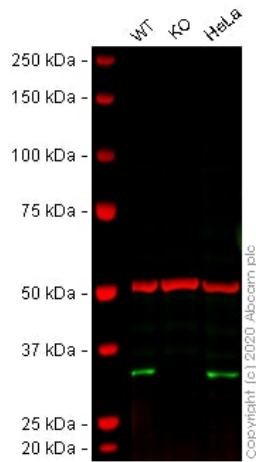
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<b>Function</b>	May function as a molecular transmitter linking various signaling pathways to transcriptional regulation. Negatively regulates the transcriptional repressor E4F1 and may function in cell growth.
<b>Tissue specificity</b>	Expressed in skeletal muscle and heart.
<b>Sequence similarities</b>	Contains 4 LIM zinc-binding domains.
<b>Domain</b>	The third LIM zinc-binding mediates interaction with E4F1.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

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## Images

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Western blot - Anti-FHL2 antibody [EPR17860-20] - BSA and Azide free (ab251378)

**All lanes** : Anti-FHL2 antibody [EPR17860-20] ([ab202584](#)) at 1/1000 dilution

**Lane 1** : Wild-type U-2 OS cell lysate

**Lane 2** : FHL2 knockout U-2 OS cell lysate

**Lane 3** : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 40 µg per lane.

Performed under reducing conditions.

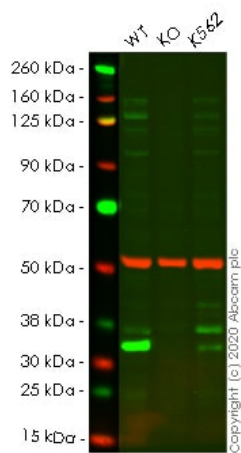
**Predicted band size:** 32 kDa

**Observed band size:** 32 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab202584](#)).

**Lanes 1 - 3:** Merged signal (red and green). Green - [ab202584](#) observed at 32 kDa. Red - loading control [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

[ab202584](#) was shown to react with FHL2 in wild-type U-2 OS cells in western blot with loss of signal observed in FHL2 knockout sample. Wild-type and FHL2 knockout U-2 OS cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with [ab202584](#) and [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-FHL2 antibody [EPR17860-20] - BSA and Azide free (ab251378)

**All lanes** : Anti-FHL2 antibody [EPR17860-20] (**ab202584**) at 1/1000 dilution

**Lane 1** : Wild-type HeLa lysate

**Lane 2** : FHL2 knockout HeLa lysate

**Lane 3** : K562 lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 32 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab202584**).

**Lanes 1-3:** Merged signal (red and green). Green - **ab202584** observed at 32 kDa. Red - loading control **ab7291** observed at 50 kDa.

**ab202584** Recombinant Anti-FHL2 antibody [EPR17860-20] was shown to specifically react with FHL2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265475** (knockout cell lysate **ab257441**) was used. Wild-type and FHL2 knockout samples were subjected to SDS-PAGE. **ab202584** and Anti-alpha Tubulin antibody [DM1A] - Loading Control? (**ab7291**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

### 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-FHL2 antibody [EPR17860-20] - BSA and Azide free (ab251378)

**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
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