


## Product datasheet

### Anti-USH1C/Harmonin antibody [EPR8131] ab133763

Recombinant RabMAb

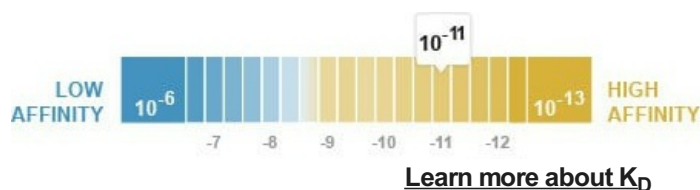
★★★★★ [2 Abreviews](#) [1 References](#) [4 Images](#)

#### Overview

Product name	Anti-USH1C/Harmonin antibody [EPR8131]
Description	Rabbit monoclonal [EPR8131] to USH1C/Harmonin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IHC-P
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, <i>Spermophilus tridecemlineatus</i> 
Immunogen	Synthetic peptide within Human USH1C/Harmonin aa 350-450. The exact sequence is proprietary.
Positive control	Human fetal kidney, Human colon and Caco 2 lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 4.00 x 10 <sup>-11</sup> M



<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8131
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab133763 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

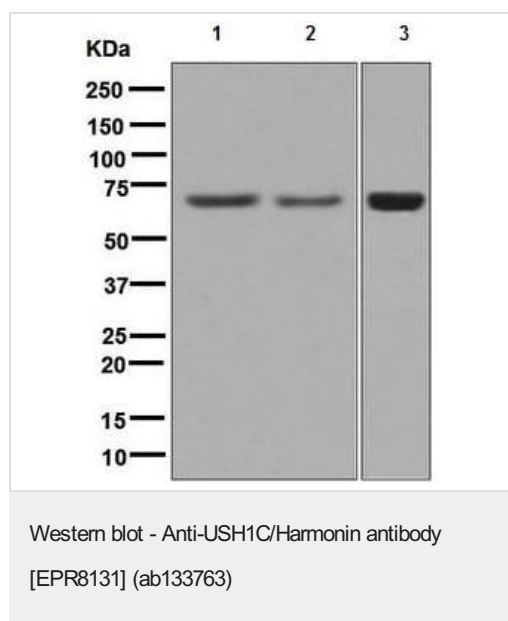
Application	Abreviews	Notes
<b>WB</b>	★★★★★ (2)	1/10000 - 1/50000. Detects a band of approximately 73 kDa (predicted molecular weight: 62 kDa).

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

## Target

<b>Function</b>	May be involved in protein-protein interaction.
<b>Tissue specificity</b>	Expressed in small intestine, colon, kidney, eye and weakly in pancreas. Expressed also in vestibule of the inner ear.
<b>Involvement in disease</b>	Defects in USH1C are the cause of Usher syndrome type 1C (USH1C) [MIM:276904]; also known as Usher syndrome type I Acadian variety. USH is a genetically heterogeneous condition characterized by the association of retinitis pigmentosa and sensorineural deafness. Age at onset and differences in auditory and vestibular function distinguish Usher syndrome type 1 (USH1), Usher syndrome type 2 (USH2) and Usher syndrome type 3 (USH3). USH1 is characterized by profound congenital sensorineural deafness, absent vestibular function and prepubertal onset of progressive retinitis pigmentosa leading to blindness. Defects in USH1C are the cause of deafness autosomal recessive type 18 (DFNB18) [MIM:602092]. DFNB18 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
<b>Sequence similarities</b>	Contains 3 PDZ (DHR) domains.
<b>Domain</b>	The PDZ domain 1 mediates interactions with USH1G/SANS and SLC4A7.

## Images



**All lanes** : Anti-USH1C/Harmonin antibody [EPR8131] (ab133763) at 1/10000 dilution

**Lane 1** : Human fetal kidney lysate

**Lane 2** : Human colon lysate

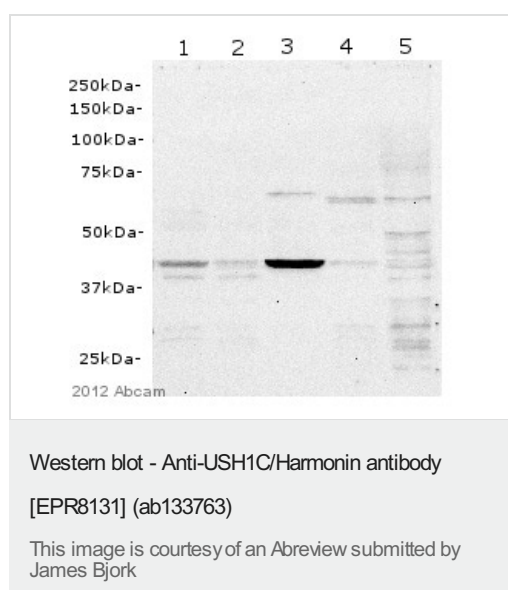
**Lane 3** : Caco 2 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

**Predicted band size:** 62 kDa



**All lanes** : Anti-USH1C/Harmonin antibody [EPR8131] (ab133763) at 1/2500 dilution

**Lane 1** : Squirrel cochlea

**Lane 2** : Mouse cochlea

**Lane 3** : Squirrel colon

**Lane 4** : Mouse colon

**Lane 5** : Caco2 cells

#### Secondary

**All lanes** : HRP linked Goat anti-rabbit IgG polyclonal at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 62 kDa

**Additional bands at:** 40 kDa (possible isoform), 67 kDa (possible isoform)

**Exposure time:** 30 seconds

OL-RD Scanning - Anti-USH1C/Harmonin antibody  
[EPR8131] (ab133763)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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-USH1C/Harmonin antibody [EPR8131]  
(ab133763)

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