

## Product datasheet

# Anti-USH1G antibody ab150820

[4 Images](#)

### Overview

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<b>Product name</b>	Anti-USH1G antibody
<b>Description</b>	Rabbit polyclonal to USH1G
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Recombinant fragment, corresponding to internal sequence amino acids 90-163 of Human USH1G (UniProt Q495M9). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Human thyroid gland tissue; RT-4 and U-251 MG cell lysates, Human liver and tonsil tissue lysates.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab150820 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		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/250 - 1/500. Predicted molecular weight: 51 kDa.
ICC/IF		Use a concentration of 1 - 4 µg/ml. Recommend PFA Fixation and Triton X-100 treatment

## Target

### Function

Required for normal development and maintenance of cochlear hair cell bundles. Anchoring/scaffolding protein that is a part of the functional network formed by USH1C, USH1G, CDH23 and MYO7A that mediates mechanotransduction in cochlear hair cells. Required for normal hearing.

### Tissue specificity

Expressed in vestibule of the inner ear, eye and small intestine.

### Involvement in disease

Usher syndrome 1G

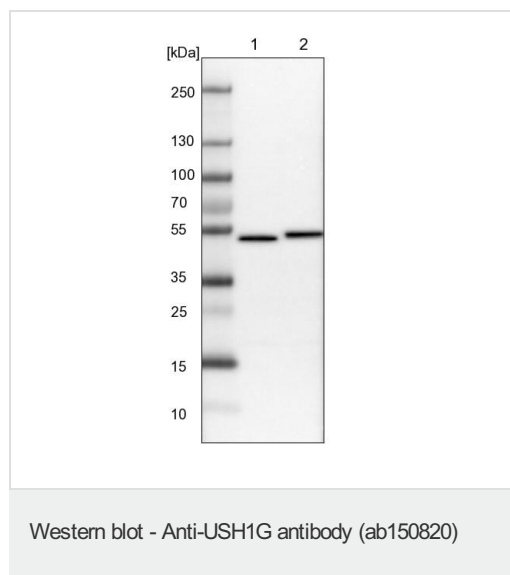
### Sequence similarities

Contains 3 ANK repeats.  
Contains 1 SAM (sterile alpha motif) domain.

### Cellular localization

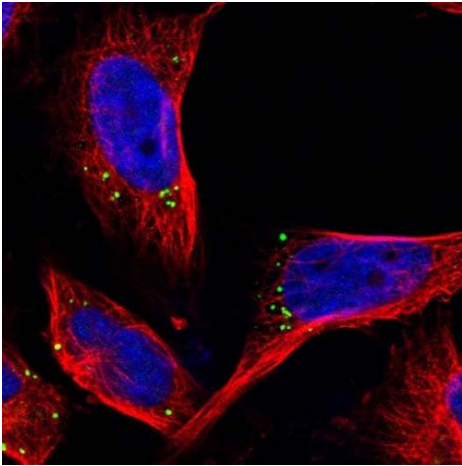
Cytoplasm > cytosol. Cytoplasm > cytoskeleton. Cell membrane. Detected at the tip of cochlear hair cell stereocilia. Recruited to the cell membrane via interaction with CDH23 or PCDH15.

## Images



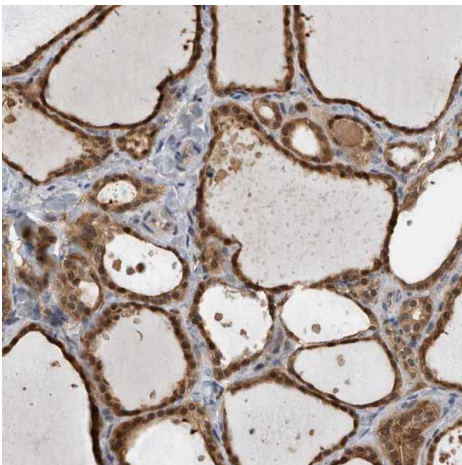
Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells)

Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells)



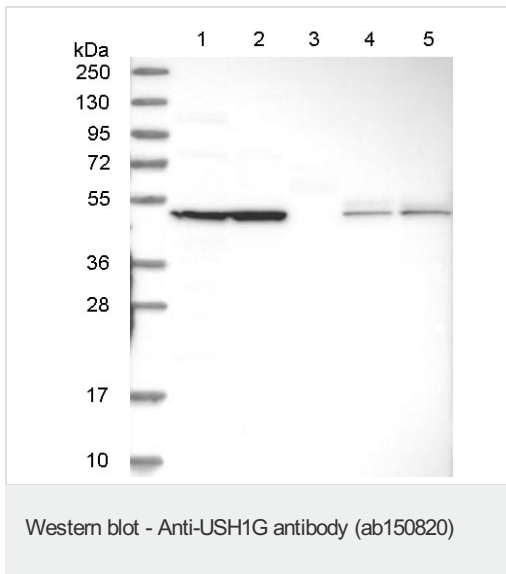
Immunocytochemistry/ Immunofluorescence - Anti-USH1G antibody (ab150820)

Immunofluorescent staining of Human cell line U-251MG shows positivity in vesicles. Recommended concentration of ab150820 1-4  $\mu\text{g/ml}$ . Cells treated with PFA/Triton X-100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USH1G antibody (ab150820)

Immunohistochemical analysis of paraffin-embedded Human thyroid gland tissue, labelling USH1G with ab150820 at 1/1000 dilution.



**All lanes :** Anti-USH1G antibody (ab150820) at 1/250 dilution

**Lane 1 :** RT-4 cell lysate

**Lane 2 :** U-251 MG cell lysate

**Lane 3 :** Human plasma lysate

**Lane 4 :** Human liver tissue lysate

**Lane 5 :** Human tonsil tissue lysate

**Predicted band size:** 51 kDa

**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

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- 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

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